

WORKING DRAFT

APPENDIX E—COMMUNICATION EQUIPMENT DATA SHEETS

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COMMUNICATION EQUIPMENT DATA SHEETS

General

Name

*Communications-Applied Technology; AWIS
Portable Repeater System*

ID# 1



Model Number(s)

AWIS

Technology

Portable, Digital DSSS TOMA

Manufacturer

Communications-Applied Technology
11250-14 Roger Bacon Drive
Reston, Virginia 20190-5202
800-229-3925 (Tel)
703-481-0068 (Tel)

Secure Communication Capability

Yes, with accessory

Availability

90 d after receipt of order

Frequency Range

2400 MHz to 2483 MHz

Number of Personnel Supported by
System

Unlimited

Geographic Coverage

Not applicable

Current User(s)

Hazardous materials response teams, explosive ordnance
disposal teams, medical triage teams, NASA ground and
flight programs, and fixed and rotary wing air crews
www.c-at.com

Source

Operational Parameters

Number of Channels

11 preprogrammed channels, 2402 channels through 2482
channels on 8 MHz increments, 5 nonoverlapping
channels on 16 MHz increments, and 3 nonoverlapping
channels on 24 MHz increments

Transmitter Power Output Levels

Portable radios: +17 dBm (optional +19 and +14)

Battery Options

Plug-in module battery packs (8, single-use, AA alkaline
batteries, or NiMH rechargeable)

Battery Recharging Options

Portable radio: single or 4-station "smart" charger

Physical Parameters

Size

Portable radio with AA battery pack: 4 in x 9 in x 1 in

Weight

Portable: 1.8 lb (with batteries)

Power Requirements

Portable radio: 6.45 V and 300 mA

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External Power	10 V to 24 V or 17 V dc to 31 V dc; 115 V ac, 60 Hz; 220 V, 50 Hz
<u>Available Accessories</u>	
Speaker-Microphones	Yes
Carrying Cases	Yes
Battery Eliminators	Yes (repeater)
Vehicle Adapters	Not applicable
<u>Logistical Parameters</u>	
Programming	Frequency, time slot, and group identifier by dip switch
Repairs	Manufacturer
Decontamination	No (portable radios worn inside PPE)
Durability/Ruggedness	Portable radios are installed in heavy gauge aluminum chassis with welded corners with rugged 1050 denier ballistic housings
Environmental Conditions	-30 °F to 120 °F
Unit Cost	\$2.2K portable radio
Battery Cycle Life	Portable radios: 6 h
Rapid Charge Battery Cycle Life	Not specified
Maintenance Cost	Less than \$100/yr
Interface Capability	Yes, LMR/cellular phone/wired intercom
<u>Special Requirements</u>	
Operator Skills Required	Minimal
Operator Training Requirements	Minimal
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	“Plug and go” compatible and interchangeable with lightweight headsets/boom microphones for “plastic suit” work, or hearing protector headsets
Warranty	1 yr
Mil Spec/Mil-Std Ratings	No
Intrinsically Safe	Intrinsically Safe Class 1, Division 1, Groups C, and D (USAF Safety Directorate)

WORKING DRAFT

General

Name

Communications-Applied Technology; DWIS
Portable Repeater System

ID# 2



Model Number(s)

DWIS

Technology

Repeater, Digital DSSS TOMA

Manufacturer

Communications-Applied Technology
11250-14 Roger Bacon Drive
Reston, Virginia 20190-5202
800-229-3925 (Tel)
703-481-0068 (Tel)

Secure Communication Capability

Yes, with accessory

Availability

90 d after receipt of order

Frequency Range

2400 MHz to 2483 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not applicable

Current User(s)

Hazardous materials response teams, Explosive Ordnance
Disposal Teams, medical triage teams, NASA ground and
flight programs, and fixed and rotary wing air crews

Source

www.c-at.com

Operational Parameters

Number of Channels

11 preprogrammed channels, 2402 channels
through 2482 channels on 8 MHz increments,
5 nonoverlapping channels on 16 MHz increments, and
3 nonoverlapping channels on 24 MHz increments

Transmitter Power Output Levels

Repeater: +19 dBm; portable radios

Battery Options

Plug-in module battery packs (8, single-use, AA alkaline
batteries, or NiMH rechargeable), external SLA, dc,
and ac

Battery Recharging Options

Repeater: built-in "smart" charger; portable radio: single
or 4-station "smart" charger

Physical Parameters

Size

Repeater: 12 in x 12 in x 3.5 in
Repeater with SLA battery and charger: 13.75 in x
12 in x 3.5 in

Weight

Repeater with SLA battery and charger: 7.2 lb

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Power Requirements	Repeater: 12 V dc, 1 A; portable radio: 6.45 V and 300 mA
External Power	External SLA, dc, and ac
<u>Available Accessories</u>	
Speaker-Microphones	Yes
Carrying Cases	Yes
Battery Eliminators	Yes (repeater)
Vehicle Adapters	Not applicable
<u>Logistical Parameters</u>	
Programming	Frequency, time slot, and group identifier by dip switch
Repairs	Manufacturer
Decontamination	No (portable radios worn inside PPE)
Durability/Ruggedness	Portable radios are installed in heavy gauge aluminum chassis with welded corners with rugged 1050 denier ballistic housings
Environmental Conditions	-30 °F to 120 °F
Unit Cost	\$7K portable repeater
Battery Cycle Life	Repeaters: 4 h
Rapid Charge Battery Cycle Life	2 yr
Maintenance Cost	Less than \$100/yr
Interface Capability	Yes, LMR/cellular phone/wired intercom
<u>Special Requirements</u>	
Operator Skills Required	Minimal
Operator Training Requirements	Minimal
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	“Plug and go” compatible and interchangeable with lightweight headsets/boom microphones for “plastic suit” work, or hearing protector headsets
Warranty	1 yr
Mil Spec/Mil-Std Ratings	No
Intrinsically Safe	No

WORKING DRAFT

General

Name

***Communications-Applied Technology; QB Series:
QB-3S, QB-3S/IS QB-3R Portable Radios***

ID# 3



Model Number(s)

QB-3S, QB-3S/IS/ QB-3R; QB-3 Series portable radio
(shown outside PPE for visibility)

Technology

Portable, conventional

Manufacturer

Communications-Applied Technology
11250–14 Roger Bacon Drive
Reston, Virginia 20190–5202
800–229–3925 (Tel)
703–481–0068 (Tel)

Secure Communication Capability

No

Availability

90 d after receipt of order

Frequency Range

150 MHz to 220 MHz

**Number of Personnel Supported by
System**

Unlimited

Geographic Coverage

Not applicable

Current User(s)

Army chemical munitions storage/demilitarization sites,
military and commercial nuclear power generating plants,
military base and municipal hazmat teams, medical triage
teams, and NASA ground and flight programs

Source

www.c-at.com

Operational Parameters

Number of Channels

Not specified

Transmitter Power Output Levels

Portable radios: +17 dBm (optional +20 and +14)

Battery Options

NiCad or 2 9 V alkaline or 6 AA alkaline

Battery Recharging Options

Wall “wart” or “smart” charger

Physical Parameters

Size

Not specified

Weight

Portable: 1.8 lb (with batteries)

Power Requirements

Portable radio: 6.45 V, 100 mA

External Power

None

Available Accessories

Speaker-Microphones

No

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Carrying Cases	Yes
Battery Eliminators	Yes (repeater)
Vehicle Adapters	Not applicable
<u>Logistical Parameters</u>	
Programming	No
Repairs	Manufacturer
Decontamination	No (portable radios worn inside PPE)
Durability/Ruggedness	Portable radios are installed in heavy gauge aluminum chassis with welded corners with rugged 1050 denier ballistic housings. Used in more than 100000 h of Level A entries.
Environmental Conditions	-30 °F to 120 °F
Unit Cost	\$7K portable repeater \$2K portable radio
Battery Cycle Life	Repeater and portable radios: 6 h
Rapid Charge Battery Cycle Life	Not specified
Maintenance Cost	Less than \$100/yr
Interface Capability	Yes, LMR/cellular phone/wired intercoms
<u>Special Requirements</u>	
Operator Skills Required	Minimal
Operator Training Requirements	Minimal
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	“Plug and go” compatible and interchangeable with lightweight headsets/boom microphones, throat microphones for “plastic suit” work, or hearing protector headsets
Warranty	1 yr
Mil Spec/Mil-Std Ratings	No
Intrinsically Safe	Intrinsically Safe Versions available - Class 1, Division 1, Groups A, B, C, and D (FRMC)

WORKING DRAFT

General

Name

Communications-Applied Technology; QB Series Repeater; Portable Repeater Systems

ID# 4



Model Number(s)

MDL

Technology

Repeater, conventional

Manufacturer

Communications-Applied Technology
11250-14 Roger Bacon Drive
Reston, Virginia 20190-5202
800-229-3925 (Tel)
703-481-0068 (Tel)

Secure Communication Capability

No

Availability

90 d after receipt of order

Frequency Range

150 MHz to 220 MHz

Number of Personnel Supported by System

Unlimited, 8 in duplex mode

Geographic Coverage

Not applicable

Current User(s)

Army chemical munitions storage/demilitarization sites, military and commercial nuclear power generating plants, military base and municipal hazmat teams, medical triage teams, and NASA ground and flight programs
www.c-at.com

Source

Operational Parameters

Number of Channels

Not specified

Transmitter Power Output Levels

Repeater: +20 dBm

Battery Options

SLA, external dc

Battery Recharging Options

Wall "wart" or "smart" charger

Physical Parameters

Size

Repeater: 19 in x 22 in x 10 in (transportable, molded plastic case); portable: 12 in x 4 in x 0.75 in (flexible/body-conforming)

Weight

Repeater: 35 lb (including SLA battery)

Power Requirements

Repeater: 12 V dc, 1 A

External Power

12 V dc to 24 V dc, 115 V ac 60 Hz

Available Accessories

Speaker-Microphones

No

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Carrying Cases	Yes
Battery Eliminators	Yes (repeater)
Vehicle Adapters	Not applicable
<u>Logistical Parameters</u>	
Programming	No
Repairs	Manufacturer
Decontamination	No (portable radios worn inside PPE)
Durability/Ruggedness	Portable radios are installed in heavy gauge aluminum chassis with welded corners with rugged, 1050 denier ballistic housings. Used in more than 100000 h of Level A entries.
Environmental Conditions	-30 °F to 120 °F
Unit Cost	\$7K portable repeater
Battery Cycle Life	Repeater and portable radios: 6 h
Rapid Charge Battery Cycle Life	Not specified
Maintenance Cost	Less than \$100/yr
Interface Capability	Yes, LMR/cellular phone/wired intercoms
<u>Special Requirements</u>	
Operator Skills Required	Minimal
Operator Training Requirements	Minimal
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	“Plug and go” compatible and interchangeable with lightweight headsets/boom microphones, throat microphones for “plastic suit” work, or hearing protector headsets
Warranty	1 yr
Mil Spec/Mil-Std Ratings	No
Intrinsically Safe	Intrinsically Safe Versions available - Class 1, Division 1, Groups A, B, C, and D (FRMC)

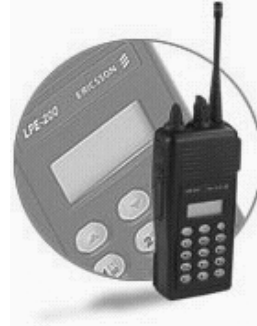
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General

Name

EDACS™ LPE-200™ Portable 800 MHz, 900 MHz

ID# 5



Model Number(s)

LPE-200™

Technology

Portable, conventional and trunked

Manufacturer

Com-Net Ericsson Critical Radio Systems, Inc.
P.O. Box 2000
Lynchburg, Virginia 24501
800-431-2345 (Tel)
www.com-netericsson.com

POC: John Hobbs

804-385-2336 (Tel)

Secure Communication Capability

Encryption available for 800 MHz only

Availability

Available

Frequency Range

800 MHz: 806 MHz to 825 MHz, 851 MHz to 870 MHz
900 MHz: 896 MHz to 901 MHz, 935 MHz to 940 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Transmission can travel 10 mi or more

Current User(s)

Not specified

Source

Com-Net Ericsson

Operational Parameters

Number of Channels

Up to 800 different trunked system/group combinations
and up to 200 conventional channels

Transmitter Power Output Levels

800 MHz: 0.5 W to 3 W trunked; 1 W to 2 W talk around
900 MHz: 0.5 W to 2 W trunked; 2 W talk around

Battery Options

High and extra high capacity

Battery Recharging Options

Vehicular charger, desk and wall chargers

Physical Parameters

Size

5.7 in x 2.6 in x 1.7 in (with high capacity battery)

Weight

20.8 oz (with high capacity battery)

Power Requirements

7.5 V dc (nominal)

External Power

No

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Available Accessories

Speaker-Microphones

Remote microphone, headset, and earpiece

Carrying Cases

Cases, belt loops, and swivel mounts

Battery Eliminators

Not specified

Vehicle Adapters

Has vehicle adapter

Logistical Parameters

Programming

Dealer/User (authorized technician) programmable - PC friendly

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Shock: 1 m drop (per EIA/TIA-603)

Vibration: 5 G (per U.S. Forest Service)

Environmental Conditions

-22 °F to 140 °F

90 % @ 122 °F relative humidity

Unit Cost

Not specified

Battery Cycle Life

Battery life @ 5/5/90: high capacity battery - 8 h; low capacity battery - 9 h

Rapid Charge Battery Cycle Life

Not specified

Maintenance Cost

Not specified

Interface Capability

Digital technology

Special Requirements

Operator Skills Required

Average

Operator Training Requirements

Average

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

FCC Type Acceptance No: AXATR-336-A and AXATR-357-A2, Industry Canada (RSS-119) 287-194-340-NA, TR-357

Support Equipment

Headset, earpiece, remote microphones, PC programming software and cables, subminiature surveillance accessories, cases, straps, belt loops and swivel mounts, desk and wall chargers, and vehicular charger

Warranty

Not specified

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810E, equivalent to Mil-Std 810C and Mil-Std D

Intrinsically Safe

No

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General

Name

EDACS™ M-RK™ Aegis™ Portable VHF, UHF, 800 MHz

ID# 6



Model Number(s)

M-RK I

Technology

Portable, conventional

Manufacturer

Com-Net Ericsson Critical Radio Systems, Inc.
P.O. Box 2000
Lynchburg, Virginia 24501
800-431-2345 (Tel)
www.com-netericsson.com

POC: John Hobbs
804-385-2336 (Tel)

Secure Communication Capability

Encryption, Improved MultiBand Excitation (IMBE) vocoder, DES, Aegis™ DES, and Aegis VGE encryption are available encryption also available

Availability

Available

Frequency Range

VHF: 136 MHz to 160 MHz, 150 MHz to 174 MHz
UHF: 403 MHz to 430 MHz, 440 MHz to 470 MHz
800: 806 MHz to 824 MHz, 851 MHz to 869 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Com-Net Ericsson

Operational Parameters

Number of Channels

Not specified

Transmitter Power Output Levels

VHF: 0.5 W to 5 W, 0.5 W to 6 W
UHF: 0.5 W to 5 W
800: 0.5 W to 3 W

Battery Options

Medium, high, extra high capacity

Battery Recharging Options

Single and multiple unit desk-style chargers and vehicular chargers

Physical Parameters

Size

M-RK I: 7 in x 2.7 in x 1.6 in (less battery, knobs, and antenna)

Weight

M-RK I: 8.8 oz (less battery)

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Power Requirements	7.5 V dc (nominal)
External Power	No
<u>Available Accessories</u>	
Speaker-Microphones	Speaker microphone
Carrying Cases	Carry case
Battery Eliminators	Not specified
Vehicle Adapters	Yes, available in standard and enhanced models
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Shock: 3 ft drop (per EIA) Vibration: 5 gravity (G) (per U.S. Forest Service) Altitude: (operational, 15000 ft; in transit, and 50000 ft)
Environmental Conditions	-22 °F to 140 °F 90 % @ 122 °F relative humidity
Unit Cost	Not specified
Battery Cycle Life	Equal to or greater than 8 h
Rapid Charge Battery Cycle Life	No
Maintenance Cost	Not specified
Interface Capability	Aegis digital voice technology, PC programming software
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	FCC Type Acceptance, Industry Canada Certification, and Applicable Industry Canada Rules
Support Equipment	Earpiece, remote microphones, subminiature surveillance accessories, leather cases, belt loops, swivel mounts, and PC programming software and cables. Single and multiple unit desk-style chargers and two types of vehicular chargers.
Warranty	Not specified
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810E
Intrinsically Safe	Intrinsically safe options and accessories are pending

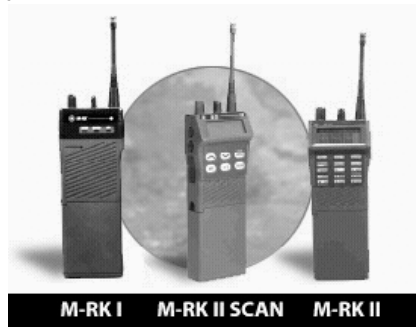
WORKING DRAFT

General

Name

EDACS™ M-RK™ Aegis™ Portable VHF, UHF, 800 MHz

ID# 7



Model Number(s)

M-RK II

Technology

Portable, conventional

Manufacturer

Com-Net Ericsson Critical Radio Systems, Inc.
P.O. Box 2000
Lynchburg, Virginia 24501
800-431-2345 (Tel)
www.com-netericsson.com

Secure Communication Capability

POC: John Hobbs
804-385-2336 (Tel)
Encryption, Improved MultiBand Excitation (IMBE) vocoder, DES, Aegis™ DES, and Aegis VGE encryption are available encryption also available

Availability

Available

Frequency Range

VHF: 136 MHz to 160 MHz, 150 MHz to 174 MHz
UHF: 403 MHz to 430 MHz, 440 MHz to 470 MHz
800: 806 MHz to 824 MHz, 851 MHz to 869 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Com-Net Ericsson

Operational Parameters

Number of Channels

Not specified

Transmitter Power Output Levels

VHF: 0.5 W to 5 W, 0.5 W to 6 W
UHF: 0.5 W to 5 W
800: 0.5 W to 3 W

Battery Options

Medium, high, extra high capacity

Battery Recharging Options

Single and multiple unit desk-style chargers and vehicular chargers

Physical Parameters

Size

M-RK II/M-RK II Scan: 4 in x 2.7 in x 1.6 in (less battery, knobs, and antenna)

Weight

M-RK II/M-RK II Scan: (less battery) 10 oz

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Power Requirements	7.5 V dc (nominal)
External Power	No
<u>Available Accessories</u>	
Speaker-Microphones	Speaker microphone
Carrying Cases	Carry case
Battery Eliminators	Not specified
Vehicle Adapters	Yes, available in standard and enhanced models
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Shock: 3 ft drop (per EIA) Vibration 5 G (per U.S. Forest Service) Altitude: (operational, 15000 ft; in transit, 50000 ft)
Environmental Conditions	-22 °F to 140 °F 90 % @ 122 °F relative humidity
Unit Cost	Not specified
Battery Cycle Life	Equal to or greater than 8 h
Rapid Charge Battery Cycle Life	No
Maintenance Cost	Not specified
Interface Capability	Aegis digital voice technology, PC programming software
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	FCC Type Acceptance, Industry Canada Certification, and Applicable Industry Canada Rules
Support Equipment	Earpiece, remote microphones, subminiature surveillance accessories, leather cases, belt loops, swivel mounts, and PC programming software and cables. Single and multiple unit desk-style chargers and two types of vehicular chargers.
Warranty	Not specified
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810E
Intrinsically Safe	Intrinsically safe options and accessories are pending

WORKING DRAFT

General

Name

EDACS™ M-RK™ Aegis™ Portable VHF, UHF, 800 MHz

ID# 8



Model Number(s)

M-AK II SCAN

Technology

Portable, Conventional

Manufacturer

Com-Net Ericsson Critical Radio Systems, Inc.
P.O. Box 2000
Lynchburg, Virginia 24501
800-431-2345 (Tel)
www.com-netericsson.com

POC: John Hobbs
804-385-2336 (Tel)

Secure Communication Capability

Encryption, Improved MultiBand Excitation (IMBE) vocoder, DES, Aegis™ DES, and Aegis VGE encryption are available encryption also available

Availability

Available

Frequency Range

VHF: 136 MHz to 160 MHz, 150 MHz to 174 MHz
UHF: 403 MHz to 430 MHz, 440 MHz to 470 MHz
800: 806 MHz to 824 MHz, 851 MHz to 869 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Com-Net Ericsson

Operational Parameters

Number of Channels

Not specified

Transmitter Power Output Levels

VHF: 0.5 W to 5 W, 0.5 W to 6 W
UHF: 0.5 W to 5 W
800: 0.5 W to 3 W

Battery Options

Medium, high, extra high capacity

Battery Recharging Options

Single and multiple unit desk-style chargers and vehicular chargers

Physical Parameters

Size

M-RK II/M-RK II Scan: 4 in x 2.7 in x 1.6 in (less battery, knobs, and antenna)

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Weight	M-RK II/M-RK II Scan: (less battery) 10 oz
Power Requirements	7.5 V dc (nominal)
External Power	No
<u>Available Accessories</u>	
Speaker-Microphones	Speaker microphone
Carrying Cases	Carry case
Battery Eliminators	Not specified
Vehicle Adapters	Yes, available in standard and enhanced models
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Shock: 3 ft drop (per EIA) Vibration 5 G (per U.S. Forest Service) Altitude: (operational, 15000 ft; in transit, 50000 ft)
Environmental Conditions	-22 °F to 140 °F 90 % @ 122 °F relative humidity
Unit Cost	Not specified
Battery Cycle Life	Equal to or greater than 8 h
Rapid Charge Battery Cycle Life	No
Maintenance Cost	Not specified
Interface Capability	Aegis digital voice technology and PC programming software
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	FCC Type Acceptance, Industry Canada Certification, and Applicable Industry Canada Rules
Support Equipment	Earpiece, remote microphones, subminiature surveillance accessories, leather cases, belt loops, swivel mounts, and PC programming software and cables. Single and multiple unit desk-style chargers and two types of vehicular chargers.
Warranty	Not specified
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810E
Intrinsically Safe	Intrinsically safe options and accessories are pending

WORKING DRAFT

General

Name

ProVoice™ Jaguar™ 700P, 800 MHz

ID# 9



Model Number(s)

Jaguar 700P

Technology

Portable, conventional and trunked

Manufacturer

Com-Net Ericsson Critical Radio Systems, Inc.
P.O. Box 2000
Lynchburg, Virginia 24501
800-431-2345 (Tel)
www.com-netericsson.com

Secure Communication Capability

POC: John Hobbs

804-385-2336 (Tel)

Encryption, Improved MultiBand Excitation (IMBE) vocoder, DES, Aegis™ DES, and Aegis VGE encryption are available encryption also available

Availability

Available

Frequency Range

806 MHz to 825 MHz, 851 MHz to 870 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Transmission can travel 10 mi or more

Current User(s)

Not specified

Source

Com-Net Ericsson

Operational Parameters

Number of Channels

Up to 200 conventional channels and up to 800 different trunked system/group combinations

Transmitter Power Output Levels

Rated RF Power: trunked 1, 3, 0.5-3 (auto mode)

Rated RF Power: talk around 1, 3

Battery Options

NiCad, NiMh

Battery Recharging Options

Desk and wall chargers

Physical Parameters

Size

6.75 in x 2.58 in x 1.79 in with battery

Weight

26 oz

Power Requirements

7.5 V dc (nominal)

External Power

No

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Available Accessories

Speaker-Microphones

Speaker microphone

Carrying Cases

Carry case

Battery Eliminators

Not specified

Vehicle Adapters

In development

Logistical Parameters

Programming

Dealer/User (authorized)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Shock: 6 ft drop (per EIA)

Vibration 5 G (per U.S. Forest Service)

Altitude: (operational, 15000 ft; in transit, 50000 ft)

Environmental Conditions

NiCad: -22 °F to 140 °F; NiMH: 14 °F to 122 °F

90 % @ 122 °F relative humidity

Unit Cost

Not specified

Battery Cycle Life

NiCad: 9 h (5/5/90); NiMH: 11 h (5/5/90)

Rapid Charge Battery Cycle Life

No

Maintenance Cost

Not specified

Interface Capability

Yes

Special Requirements

Operator Skills Required

Average

Operator Training Requirements

Average

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

FCC Type Acceptance Number (Pending), Industry

Canada Certification Number (Pending)

Support Equipment

Headset, earpiece, speaker microphones, PC programming software and cables, subminiature surveillance accessories, cases, straps, belt loops and swivel mounts, and desk and wall chargers

Warranty

Not specified

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810E

Intrinsically Safe

Intrinsically safe options and accessories are pending

WORKING DRAFT

General

Name

***ComNet Ericsson Jaguar Transceiver, Portable;
Jaguar 700P, 800 MHz***

ID# 10



Model Number(s)

EDACS, Jaguar 700P

Technology

Portable, conventional and trunked

Manufacturer

Com-Net Ericsson Critical Radio Systems, Inc.
P.O. Box 2000
Lynchburg, Virginia 24501
800-431-2345 (Tel)
www.com-netericsson.com

Secure Communication Capability

POC: John Hobbs

804-385-2336 (Tel)

Yes, built-in encryption security

Availability

Available

Frequency Range

806 MHz to 825 MHz, 851 MHz to 870 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Transmission can travel 10 mi or more

Current User(s)

Not specified

Source

Com-Net Ericsson

Operational Parameters

Number of Channels

Up to 200 conventional channels

Transmitter Power Output Levels

Rated RF Power: trunked 1, 3, 0.5-3 (auto mode)

Rated RF Power: talk around 1, 3

Battery Options

NiCad, NiMh

Battery Recharging Options

Desk and wall chargers

Physical Parameters

Size

6.75 in x 2.58 in x 1.79 in with battery

Weight

26 oz

Power Requirements

7.5 V dc (nominal)

External Power

No

Available Accessories

Speaker-Microphones

Speaker microphone

WORKING DRAFT

Carrying Cases	Carry case
Battery Eliminators	Not specified
Vehicle Adapters	In development
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Shock: 6 ft drop (per EIA) Vibration 5 G (per U.S. Forest Service) Altitude: (operational, 15,000 ft; in transit, 50000 ft)
Environmental Conditions	NiCad: -22 °F to 140 °F; NiMH: 14 °F to 122 °F 90 % @ 122 °F relative humidity
Unit Cost	Greater than \$1K
Battery Cycle Life	NiCad: 9 h (5/5/90); NiMH: 11 h (5/5/90)
Rapid Charge Battery Cycle Life	No
Maintenance Cost	Not specified
Interface Capability	Yes
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	FCC Type Acceptance Number (Pending), Industry Canada Certification Number (Pending)
Support Equipment	Headset, earpiece, speaker microphones, PC programming software and cables, subminiature surveillance accessories, cases, straps, belt loops and swivel mounts, and desk and wall chargers
Warranty	Not specified
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810E
Intrinsically Safe	Intrinsically safe options and accessories are pending

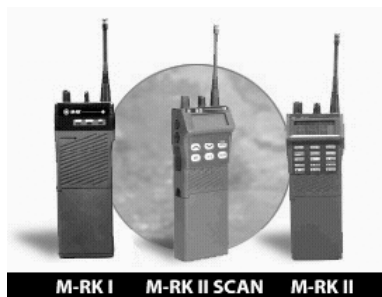
WORKING DRAFT

General

Name

***ComNet Ericsson M-RK™ Analog Portable,
M-RK I***

ID# 11



Model Number(s)

M-RK I

Technology

Portable, conventional and trunked

Manufacturer

Com-Net Ericsson Critical Radio Systems, Inc.
P.O. Box 2000
Lynchburg, Virginia 24501
800-431-2345 (Tel)
www.com-netericsson.com

Secure Communication Capability

Yes

Availability

Available

Frequency Range

UHF: 403 MHz to 430 MHz
VHF: 136 MHz to 174 MHz
800 MHz: 806 MHz to 824 MHz, 851 MHz to 869 MHz

Number of Personnel Supported by System

Multiple

Geographic Coverage

Transmission can travel 10 miles or more

Current User(s)

Not specified

Source

Com-Net Ericsson

Operational Parameters

Number of Channels

Multi-channel dependent on control system

Transmitter Power Output Levels

VHF: 0.5 W to 5 W, 0.5 W to 6 W
UHF: 0.5 W to 5 W
800 MHz: 0.5 W to 3 W

Battery Options

Medium, high, and extra high

Battery Recharging Options

Single and multiple unit desk-style chargers and two types of vehicular chargers

Physical Parameters

Size

4 in x 2.7 in x 1.2 in (without battery)

Weight

8 oz (without battery)

Power Requirements

7.5 V dc

External Power

No

WORKING DRAFT

Available Accessories

Speaker-Microphones

Remote microphone, and earpieces

Carrying Cases

Leather cases, belt loops, and swivel mounts

Battery Eliminators

Not specified

Vehicle Adapters

Yes

Logistical Parameters

Programming

Dealer/User (authorized technician) programmable -
PC friendly

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Shock: 1 m drop (per EIA/TIA-603)

Vibration: 5 G (per U.S. Forest Service)

Environmental Conditions

-22 °F to 140 °F

90 % @ 122 °F relative humidity

Unit Cost

Greater than \$500 but less than \$1K

Battery Cycle Life

Equal to or greater than 8 h

Rapid Charge Battery Cycle Life

Not specified

Maintenance Cost

Not specified

Interface Capability

Capable of digital communications with an adapter

Special Requirements

Operator Skills Required

Average

Operator Training Requirements

Average

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Logically positioned LCD indicators provide easy-read operation. Battery chargers, earpieces, remote microphones, subminiature surveillance accessories, leather cases, belt loops, swivel mounts, and PC programming software and cables.

Warranty

Not specified

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and
Mil Spec 810E

Intrinsically Safe

No

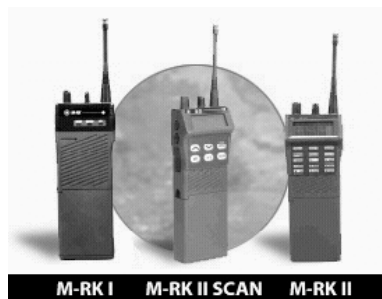
WORKING DRAFT

General

Name

***ComNet Ericsson M-RK™ Analog Portable,
M-RK II***

ID# 12



Model Number(s)

M-RK II

Technology

Portable, conventional and trunked

Manufacturer

Com-Net Ericsson Critical Radio Systems, Inc.
P.O. Box 2000
Lynchburg, Virginia 24501
800-431-2345 (Tel)
www.com-netericsson.com

Secure Communication Capability

POC: John Hobbs

804-385-2336 (Tel)

Availability

Yes

Available

Frequency Range

UHF: 403 MHz to 430 MHz

VHF: 136 MHz to 174 MHz

800 MHz: 806 MHz to 824 MHz, 851 MHz to 869 MHz

470 MHz to 500 MHz

Number of Personnel Supported by System

Multiple

Geographic Coverage

Transmission can travel 10 mi or more

Current User(s)

Not specified

Source

Com-Net Ericsson

Operational Parameters

Number of Channels

Multi-channel dependent on control system

Transmitter Power Output Levels

VHF: 0.5 W to 5 W, 0.5 W to 6 W

UHF: 0.5 W to 5 W

800 MHz: 0.5 W to 3 W

Battery Options

Medium, high, and extra high

Battery Recharging Options

Single and multiple unit desk-style chargers and two types of vehicular chargers

Physical Parameters

Size

4 in x 2.7 in x 1.6 in (without battery)

Weight

10 oz (without battery)

Power Requirements

7.5 V dc

External Power

No

WORKING DRAFT

Available Accessories

Speaker-Microphones

Remote microphone, and earpieces

Carrying Cases

Leather cases, belt loops, and swivel mounts

Battery Eliminators

Not specified

Vehicle Adapters

Yes

Logistical Parameters

Programming

Dealer/User (authorized technician) programmable -
PC friendly

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Shock: 1 m drop (per EIA/TIA-603)

Vibration: 5 G (per U.S. Forest Service)

Altitude: 15000 ft operational

Environmental Conditions

-22 °F to 140 °F

90 % @ 122 °F relative humidity

Unit Cost

Greater than \$K per unit

Battery Cycle Life

Greater than 8 h

Rapid Charge Battery Cycle Life

Not specified

Maintenance Cost

Not specified

Interface Capability

Capable of digital transmissions with an adapter

Special Requirements

Operator Skills Required

Average

Operator Training Requirements

Average

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Features a full system keypad and provides access to system and radio features including individual calls, scan, and menu select. Battery chargers, earpieces, remote microphones, subminiature surveillance accessories, leather cases, belt loops, and swivel mounts.

Warranty

Not specified

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, MIL Spec 810D, and
Mil Spec 810E

Intrinsically Safe

No

WORKING DRAFT

General

Name

***ComNet Ericsson M-RK™ Analog Portable,
M-RK II Scan***

ID# 13



Model Number(s)

M-RK II Scan

Technology

Portable, conventional and trunked

Manufacturer

Com-Net Ericsson Critical Radio Systems, Inc.
P.O. Box 2000
Lynchburg, Virginia 24501
800-431-2345 (Tel)
www.com-netericsson.com

Secure Communication Capability

POC: John Hobbs

804-385-2336 (Tel)

Availability

Yes

Available

Frequency Range

UHF: 403 MHz to 430 MHz

VHF: 136 MHz to 174 MHz

800 MHz: 806 MHz to 824 MHz, 851 MHz to 869 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Transmission can travel 10 mi or more

Current User(s)

Not specified

Source

Com-Net Ericsson

Operational Parameters

Number of Channels

Multi-channel dependent on control system

Transmitter Power Output Levels

VHF: 0.5 W to 5 W, 0.5 W to 6 W

UHF: 0.5 W to 5 W

800 MHz: 0.5 W to 3 W

Battery Options

Medium, high, and extra high

Battery Recharging Options

Single and multiple unit desk-style chargers and two types of vehicular chargers

Physical Parameters

Size

4 in x 2.7 in x 1.6 in (without battery)

Weight

8 oz (without battery)

Power Requirements

7.5 V dc

External Power

No

WORKING DRAFT

Available Accessories

Speaker-Microphones

Remote microphone, and earpieces

Carrying Cases

Leather cases, belt loops, and swivel mounts

Battery Eliminators

Not specified

Vehicle Adapters

Yes

Logistical Parameters

Programming

Dealer/User (authorized technician) programmable -
PC friendly

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Shock: 1 m drop (per EIA/TIA-603)

Vibration: 5 G (per U.S. Forest Service)

Environmental Conditions

-22 °F to 140 °F

90 % @ 122 °F relative humidity

Unit Cost

Greater than \$1K

Battery Cycle Life

Greater than 8 h

Rapid Charge Battery Cycle Life

Not specified

Maintenance Cost

Not specified

Interface Capability

Capable of digital communications with an adapter

Special Requirements

Operator Skills Required

Average

Operator Training Requirements

Average

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Features a six-button keypad and provides access to scan and menu select features. A slanted dot matrix LCD can be read easily when worn on the user's hip. Battery chargers, earpieces, remote microphones, subminiature surveillance accessories, and leather cases.

Warranty

Not specified

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and

Mil Spec 810E

Intrinsically Safe

No

WORKING DRAFT

General

Name

ComNet Ericsson Repeater; MASTR III

ID# 14

Picture Not Available

Model Number(s)

MASTR III

Technology

Repeater, conventional or trunking

Manufacturer

Com-Net Ericsson Critical Radio Systems, Inc.
P.O. Box 2000
Lynchburg, Virginia 24501
800-431-2345 (Tel)
www.com-netericsson.com

Secure Communication Capability

Yes

Availability

Available

Frequency Range

136 MHz to 174 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not applicable

Current User(s)

Not specified

Source

Com-Net Ericsson

Operational Parameters

Number of Channels

Not specified

Transmitter Power Output Levels

9 W to 18 W

Battery Options

Limited options

Battery Recharging Options

Not specified

Physical Parameters

Size

17 in x 21 in x 7.5 in

Weight

35 lb (without cables)

Power Requirements

13.8 V dc

External Power

Yes

Available Accessories

Speaker-Microphones

Yes

Carrying Cases

Yes

Battery Eliminators

Not specified

Vehicle Adapters

Not applicable

WORKING DRAFT

Logistical Parameters

Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Rugged use
Environmental Conditions	Not specified
Unit Cost	Greater than \$1K
Battery Cycle Life	Not specified
Rapid Charge Battery Cycle Life	Not specified
Maintenance Cost	Not specified
Interface Capability	Capable of digital transmissions without an adapter

Special Requirements

Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	Available
Warranty	Not specified
Mil Spec/Mil-Std Ratings	No
Intrinsically Safe	No

WORKING DRAFT

General

Name

ID# 15

ComNet Ericsson Orion Mobile Radio



Model Number(s)

Orion

Technology

VHF and UHF

Manufacturer

Mobile, conventional and trunked

Com-Net Ericsson Critical Radio Systems, Inc.

P.O. Box 2000

Lynchburg, Virginia 24501

800-431-2345 (Tel)

www.com-netericsson.com

Secure Communication Capability

POC: John Hobbs

804-385-2336 (Tel)

Encryption using either the DES or proprietary VGE algorithm

Availability

Available

Frequency Range

VHF: 136 MHz to 153 MHz, 150 MHz to 174 MHz

UHF: 403 MHz to 440 MHz, 440 MHz to 470 MHz

470 MHz to 512 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

ComNet Ericsson

Operational Parameters

Number of Channels

EDACS System/group combinations: 800 channels and 192 conventional channels

Transmitter Power Output Levels

Watts are adjustable to 50 % of rated power

VHF: 50 W, 110 W

UHF: 40 W, 100 W (35 W, 80 W for 470 MHz to 512 MHz)

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

2 in x 6.9 in x 9.3 in

Weight

Not specified

Power Requirements

10.8 V dc to 16.6 V dc negative ground

WORKING DRAFT

External Power	Not applicable
<u>Available Accessories</u>	
Speaker-Microphones	Not applicable
Carrying Cases	Not applicable
Battery Eliminators	Not applicable
Vehicle Adapters	Not applicable
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Construction: Control unit is high impact plastic transceiver is cast metal Weatherproof microphone with hookswitch
Environmental Conditions	-22 °F to 140 °F @ 90 % 50° relative humidity
Unit Cost	Greater than \$1K
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Field programmable using an IBM PC
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	FCC Certified
Support Equipment	Remote mount kit, public address, siren and light controls, unity and gain antennas, multiple control units for single radio, multiple radios from single control head, RF pre-amplifier, internal Aegis, Aegis Encryption (wideband mode only)
Warranty	Not specified
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	No

WORKING DRAFT

General

Name

ComNet Ericsson Repeater; Orion Transportable Repeater

ID# 16



Model Number(s)

Orion Transportable Repeater

Technology

Repeater, conventional or trunking

Manufacturer

Com-Net Ericsson Critical Radio Systems, Inc.
P.O. Box 2000
Lynchburg, Virginia 24501
800-431-2345 (Tel)
www.com-netericsson.com

Secure Communication Capability

POC: John Hobbs

804-385-2336 (Tel)

Yes, with optional accessory

Availability

Available

Frequency Range

136 MHz to 174 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not applicable

Current User(s)

Not specified

Source

Com-Net Ericsson

Operational Parameters

Number of Channels

Not specified

Transmitter Power Output Levels

9 W to 18 W

Battery Options

Limited options

Battery Recharging Options

Not specified

Physical Parameters

Size

17 in x 21 in x 7.5 in

Weight

35 lb (without cables)

Power Requirements

13.8 V dc

External Power

Yes

Available Accessories

Speaker-Microphones

Yes

Carrying Cases

Yes

WORKING DRAFT

Battery Eliminators

Not specified

Vehicle Adapters

Not applicable

Logistical Parameters

Programming

Dealer/User (authorized technician)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Standard use

Environmental Conditions

Not specified

Unit Cost

Greater than \$1K

Battery Cycle Life

Not specified

Rapid Charge Battery Cycle Life

Not specified

Maintenance Cost

Not specified

Interface Capability

Capable of digital transmissions without an adapter

Special Requirements

Operator Skills Required

Average

Operator Training Requirements

Average

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Available

Warranty

Not specified

Mil Spec/Mil-Std Ratings

Very durable

Intrinsically Safe

No

WORKING DRAFT

General

Name

ComNet Ericsson Panther Transceiver, Mobile Panther 400M

ID# 17

Picture Not Available

Model Number(s)

400M

Technology

Mobile, conventional

Manufacturer

Com-Net Ericsson Critical Radio Systems, Inc.
P.O. Box 2000
Lynchburg, Virginia 24501
800-431-2345 (Tel)
www.com-netericsson.com

Secure Communication Capability

POC: John Hobbs
804-385-2336 (Tel)

Availability

Yes, with accessory

Frequency Range

Available

UHF: 400 MHz to 470 MHz or 450 MHz to 520 MHz
VHF: 136 MHz to 174 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Com-Net Ericsson

Operational Parameters

Number of Channels

24 channels with priority scan

Transmitter Power Output Levels

Hi: 25 W; low: 5 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

1.97 in x 5.90 in x 7.28 in

Weight

2.65 lb

Power Requirements

13.6 V dc \pm 20 % operating range (negative ground)

External Power

Not applicable

Available Accessories

Speaker-Microphones

External 4 W speaker

Carrying Cases

Not applicable

Battery Eliminators

Not applicable

WORKING DRAFT

Vehicle Adapters	Not applicable
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician) programmable - PC friendly
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Die-cast aluminum frame, top and bottom covers for main body. Plastic (Noryl SE1) user interface
Environmental Conditions	-22 °F to 140 °F 90 % @ relative humidity (maximum)
Unit Cost	Less than \$500
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Not capable of digital transmission
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	DTMF microphone, PC programming software and cable, external 4 W speaker, accessory cable, modem, hands-free kit, noise suppression kit, scrambler, desktop power supply, and desktop microphone
Warranty	Not specified
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810E
Intrinsically Safe	No

WORKING DRAFT

General

Name

***ComNet Ericsson Panther Transceiver, Mobile
Panther 600M***

ID# 18

Picture Not Available

Model Number(s)

600M

Technology

Mobile, conventional

Manufacturer

Com-Net Ericsson Critical Radio Systems, Inc.
P.O. Box 2000
Lynchburg, Virginia 24501
800-431-2345 (Tel)
www.com-netericsson.com

Secure Communication Capability

POC: John Hobbs
804-385-2336 (Tel)

Availability

Yes, with accessory

Frequency Range

Available

UHF: 400 MHz to 470 MHz or 450 MHz to 520 MHz
VHF: 136 MHz to 174 MHz

**Number of Personnel Supported by
System**

Unlimited

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Com-Net Ericsson

Operational Parameters

Number of Channels

100 channels with priority scan

Transmitter Power Output Levels

Hi: 25 W; low: 5 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

1.97 in x 5.90 in x 7.28 in

Weight

2.65 lb

Power Requirements

13.6 V dc \pm 20 % operating range (negative ground)

External Power

Not applicable

Available Accessories

Speaker-Microphones

External 4 W speaker

Carrying Cases

Not applicable

Battery Eliminators

Not applicable

WORKING DRAFT

Vehicle Adapters

Not applicable

Logistical Parameters

Programming

Dealer/User (authorized technician) programmable - PC friendly

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Die-cast aluminum frame, top and bottom covers for main body. Plastic (Noryl SE1) user interface

Environmental Conditions

-22 °F to 140 °F

Unit Cost

90 % @ relative humidity (maximum)

Battery Cycle Life

Greater than \$500 but less than \$1K

Rapid Charge Battery Cycle Life

Not applicable

Maintenance Cost

Not applicable

Interface Capability

Not specified

Not capable of digital transmission

Special Requirements

Operator Skills Required

Average

Operator Training Requirements

Average

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

DTMF microphone, PC programming software and cable, external 4 W speaker, accessory cable, modem, hands-free kit, noise suppression kit, scrambler, desktop power supply, and desktop microphone

Warranty

Not specified

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810E

Intrinsically Safe

No

WORKING DRAFT

General

Name

***ComNet Ericsson Panther Transceiver, Portable;
Panther 400P***

ID# 19

Picture Not Available

Model Number(s)

Panther 400P VHF/UHF

Technology

Portable, conventional

Manufacturer

Com-Net Ericsson Critical Radio Systems, Inc.
P.O. Box 2000
Lynchburg, Virginia 24501
800-431-2345 (Tel)
www.com-netericsson.com

POC: John Hobbs
804-385-2336 (Tel)

Secure Communication Capability

No

Availability

Available

Frequency Range

UHF: 400 MHz to 470 MHz or 450 MHz to 520 MHz
VHF: 136 MHz to 174 MHz

**Number of Personnel Supported by
System**

Unlimited

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Com-Net Ericsson

Operational Parameters

Number of Channels

16 channels

Transmitter Power Output Levels

VHF and UHF: 1 W, 2.5 W, 5 W

Battery Options

1100 mAh NiCad, 1500 mAh NiCad, 1850 mAh NiMh

Battery Recharging Options

Single unit and multi-unit rapid chargers, vehicular
chargers

Physical Parameters

Size

6.1 in x 2.6 in x 1.8 in with 1000 mAh battery

Weight

11.5 oz without battery; 18.1 oz with 1100 mAh battery

Power Requirements

7.5 V dc (nominal); 6.0 V dc to 9.0 V dc (operating range)

External Power

No

Available Accessories

Speaker-Microphones

Speaker microphone

Carrying Cases

Heavy duty case, holster case, belt clips and strap

WORKING DRAFT

Battery Eliminators

Not specified

Vehicle Adapters

Enhanced vehicular charger

Logistical Parameters

Programming

Dealer/User (authorized technician) programmable -
PC friendly

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Durable radio built to withstand demanding use.

Environmental Conditions

-24 °F to 145 °F

90 % @ 122 °F relative humidity

Unit Cost

Less than \$500

Battery Cycle Life

1100 mAh NiCad: 8 h (5/5/90); 1500 mAh NiCad: 10.5 h
(5/5/90); 1850 mAh NiMH: 13 h (5/5/90)

Rapid Charge Battery Cycle Life

Single-unit and multi-unit rapid chargers

Maintenance Cost

Not specified

Interface Capability

Not capable of digital transmissions

Special Requirements

Operator Skills Required

Average

Operator Training Requirements

Average

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

FCC Type Acceptance Number, Applicable FCC Rules,
Industry Canada Certification Number and Applicable
Industry Canada Rules

Support Equipment

Speaker microphones, earpiece, single-unit and multi-unit
rapid chargers, PC programming software and cable
vehicular chargers, heavy-duty case, holster case, belt
clips, and strap

Warranty

Not specified

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810E

Intrinsically Safe

No

WORKING DRAFT

General

Name

***ComNet Ericsson Panther Transceiver, Portable;
Panther 500P***

ID# 20

Picture Not Available

Model Number(s)

Panther 500P VHF/UHF

Technology

Portable, conventional

Manufacturer

Com-Net Ericsson Critical Radio Systems, Inc.
P.O. Box 2000
Lynchburg, Virginia 24501
800-431-2345 (Tel)
www.com-netericsson.com

POC: John Hobbs
804-385-2336 (Tel)

Secure Communication Capability

No

Availability

Available

Frequency Range

UHF: 403 MHz to 440 MHz, 440 MHz to 470 MHz,
470 MHz to 512 MHz
VHF: 136 MHz to 155 MHz, 150.76 MHz to 174 MHz

**Number of Personnel Supported by
System**

Unlimited

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Com-Net Ericsson

Operational Parameters

Number of Channels

16 channels with priority scan

Transmitter Power Output Levels

VHF hi: 5 W, low: 1 W; UHF hi: 4 W, low: 1 W

Battery Options

High capacity and extra high capacity

Battery Recharging Options

Single unit and multi-unit rapid chargers, and
vehicular chargers

Physical Parameters

Size

3.7 in x 2.5 in x 0.9 in with high capacity battery

Weight

7.2 oz with high capacity battery

Power Requirements

7.5 V dc (nominal)

External Power

No

Available Accessories

Speaker-Microphones

Speaker microphone

WORKING DRAFT

Carrying Cases	Case, belt loop, swivel mount, and strap
Battery Eliminators	Not specified
Vehicle Adapters	Yes
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician) programmable - PC Friendly
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Standard
Environmental Conditions	-22 °F to 140 °F 90 % @ 122 °F relative humidity
Unit Cost	Greater than \$500 but less than \$1K
Battery Cycle Life	Equal to or greater than 8 h
Rapid Charge Battery Cycle Life	Single-unit and multi-unit rapid chargers
Maintenance Cost	Not specified
Interface Capability	Not capable of digital transmission
<u>Special Requirements</u>	
Operator Skills Required	Minimal
Operator Training Requirements	Minimal
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	FCC Type Acceptance Number, Applicable FCC Rules, Industry Canada Certification Number and Applicable Industry Canada Rules
Support Equipment	Speaker microphones, earpiece, single-unit and multi-unit rapid chargers, PC programming software and cable vehicular chargers, heavy-duty case, holster case, belt clips, and strap
Warranty	Not specified
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810E
Intrinsically Safe	No

WORKING DRAFT

General

Name

***ComNet Ericsson Panther Transceiver, Portable;
Panther 600P***

ID# 21

Picture Not Available

Model Number(s)

Panther 600P VHF/UHF

Technology

Portable, conventional

Manufacturer

Com-Net Ericsson Critical Radio Systems, Inc.
P.O. Box 2000
Lynchburg, Virginia 24501
800-431-2345 (Tel)
www.com-netericsson.com

POC: John Hobbs
804-385-2336 (Tel)

Secure Communication Capability

No

Availability

Available

Frequency Range

UHF: 400 MHz to 470 MHz, 450 MHz to 530 MHz
VHF: 136 MHz to 174 MHz

**Number of Personnel Supported by
System**

Unlimited

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Com-Net Ericsson

Operational Parameters

Number of Channels

100 channel capacity

Transmitter Power Output Levels

VHF: 1 W, 2.5 W, 5 W
UHF: 1 W, 2.5 W, 4 W

Battery Options

1100 mAh NiCad, 1500 mAh NiCad, 1850 mAh NiMh

Battery Recharging Options

Single and multi-unit rapid chargers

Physical Parameters

Size

6.1 x 2.6 x 1.8 inches with 1000 mAh battery

Weight

11.5 oz without battery; 18.1 oz with 1100 mAh battery

Power Requirements

7.5 V dc (nominal)
6.0 V dc to 9.0 V dc (operating range)

External Power

No

Available Accessories

Speaker-Microphones

Speaker microphone

WORKING DRAFT

Carrying Cases	Heavy-duty case, holster case
Battery Eliminators	Not specified
Vehicle Adapters	Enhanced vehicular charger (adapter)
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Reliable construction, weatherproof accessory connector
Environmental Conditions	-24 °F to 145 °F 90 % @ 122 °F relative humidity
Unit Cost	Less than \$500
Battery Cycle Life	1100 mAh NiCad: 8 h (5/5/90); 1500 mAh NiCad: 10.5 h (5/5/90); 1850 mAh NiMH: 13 h (5/5/90)
Rapid Charge Battery Cycle Life	Single-unit and multi-unit rapid chargers
Maintenance Cost	Not specified
Interface Capability	Versatile UDC allows users to attach a full range of accessories or connect to a PC for programming, testing, and calibration
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	FCC Type Acceptance, Industry Canada Certification
Support Equipment	Speaker microphones, earpiece, single-unit and multi-unit rapid chargers, PC programming software and cable, vehicular chargers, heavy-duty case, holster case, belt clips, and strap
Warranty	Not specified
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810E and IP54 standards
Intrinsically Safe	No

WORKING DRAFT

General

Name

***ComNet Ericsson Panther Transceiver, Portable;
Panther™ 625P***

ID# 22



Model Number(s)

Panther™ 625P VHF, UHF

Technology

Portable, conventional

Manufacturer

Com-Net Ericsson Critical Radio Systems, Inc.
P.O. Box 2000
Lynchburg, Virginia 24501
800-431-2345 (Tel)
www.com-netericsson.com

Secure Communication Capability

POC: John Hobbs

804-385-2336 (Tel)

Availability

No

Available

Frequency Range

UHF: 400 MHz to 470 MHz, 450 MHz to 530 MHz

VHF: 136 MHz to 174 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Com-Net Ericsson

Operational Parameters

Number of Channels

Multiple

Transmitter Power Output Levels

VHF: 1 W, 2.5 W, 5 W

UHF: 1 W, 2.5 W, 4 W

Battery Options

1100 mAh NiCad, 1500 mAh NiCad, 1850 mAh NiMh

Battery Recharging Options

Single and multi-unit rapid chargers, vehicular charger

Physical Parameters

Size

6.1 in x 2.6 in x 1.8 in with 1000 mAh battery

Weight

11.5 oz without battery; 18.1 oz with 1100 mAh battery

Power Requirements

7.5 V dc (nominal)

6.0 V dc to 9.0 V dc (operating range)

External Power

No

Available Accessories

WORKING DRAFT

Speaker-Microphones

Speaker microphone

Carrying Cases

Heavy-duty case, holster case

Battery Eliminators

Not specified

Vehicle Adapters

Yes

Logistical Parameters

Programming

Dealer/User (authorized)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Built to withstand demanding use, weatherproof accessory connector

Environmental Conditions

-24 °F to 145 °F

Unit Cost

90 % @ 122 °F relative humidity

Battery Cycle Life

Greater than \$500 but less than \$1K

Rapid Charge Battery Cycle Life

1100 mAh NiCad: 8 h (5/5/90); 1500 mAh NiCad: 10.5 h (5/5/90); 1850 mAh NiMH: 13 h (5/5/90)

Maintenance Cost

Single-unit and multi-unit rapid chargers

Interface Capability

Not specified

Versatile UDC allows users to attach a full range of accessories or connect to a PC for programming, testing, and calibration

Special Requirements

Operator Skills Required

Average

Operator Training Requirements

Average

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

FCC Type Acceptance, Industry Canada Certification

Support Equipment

Speaker microphones, earpiece, single-unit and multi-unit rapid chargers, PC programming software and cable, vehicular chargers, heavy-duty case, holster case, belt clips, and strap

Warranty

Not specified

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810E

Intrinsically Safe

No

WORKING DRAFT

General

Name

ID# 23

ProVoice™ LPE-200™ Portable 800 MHz



Model Number(s)

ProVoice LPE-200™

Technology

Portable, conventional and trunked

Manufacturer

Com-Net Ericsson Critical Radio Systems, Inc.
P.O. Box 2000
Lynchburg, Virginia 24501
800-431-2345 (Tel)
www.com-netericsson.com

POC: John Hobbs
804-385-2336 (Tel)

Secure Communication Capability

Encryption, Improved MultiBand Excitation (IMBE)
vocoder, DES encryption also available

Availability

Available

Frequency Range

UHF: 403 MHz to 430 MHz
VHF: 136 MHz to 174 MHz
800: 806 MHz to 824 MHz, 851 MHz to 869 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Transmission can travel 10 mi or more

Current User(s)

Not specified

Source

Com-Net Ericsson

Operational Parameters

Number of Channels

Up to 800 different trunked system/group combinations
and up to 200 conventional channels
0.5 W to 3 W trunked; 1 W to 2 W talk around

Transmitter Power Output Levels

Battery Options

High and extra high capacity

Battery Recharging Options

Vehicular charger, desk and wall chargers

Physical Parameters

Size

5.7 in x 2.6 in x 1.7 in (with high capacity battery)

Weight

20.8 oz (with high capacity battery)

Power Requirements

7.5 V dc (nominal)

External Power

No

WORKING DRAFT

Available Accessories

Speaker-Microphones

Remote microphone, headset, earpiece

Carrying Cases

Leather cases, belt loops, swivel mounts

Battery Eliminators

Not specified

Vehicle Adapters

Has vehicle adapter

Logistical Parameters

Programming

Dealer/User (authorized technician) programmable -
PC friendly

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Shock: 1 m drop (per EIA/TIA-603)

Vibration: 5 G (per U.S. Forest Service)

Environmental Conditions

-22 °F to 140 °F

90 % @ 122 °F relative humidity

Unit Cost

Not specified

Battery Cycle Life

Battery life @ 5/5/90: high capacity battery - 8 h; low
capacity battery - 9 h

Rapid Charge Battery Cycle Life

Not specified

Maintenance Cost

Not specified

Interface Capability

Digital technology

Special Requirements

Operator Skills Required

Average

Operator Training Requirements

Average

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

FCC Type Acceptance No: AXATR-336-A, Industry
Canada (RSS-119) 287-194-340-NA

Support Equipment

Headset, earpiece, remote microphones, PC programming
software and cables, subminiature surveillance
accessories, cases, straps, belt loops and swivel mounts

Warranty

Not specified

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810E, equivalent Mil-Std 810C and
Mil-Std 810D

Intrinsically Safe

No

WORKING DRAFT

General

Name

ProVoice™ MASTR™ III Base Station 800 MHz

ID# 24

Picture Not Available

Model Number(s)

MASTR III

Technology

Base station or repeater, conventional or trunking (with programmable GETC™ shelf)

Manufacturer

Com-Net Ericsson Critical Radio Systems, Inc.

P.O. Box 2000

Lynchburg, Virginia 24501

800-431-2345 (Tel)

www.com-netericsson.com

POC: John Hobbs

804-385-2336 (Tel)

Secure Communication Capability

Encryption, Improved MultiBand Excitation (IMBE) vocoder, DES encryption also available

Availability

Available

Frequency Range

851 MHz to 870 MHz transmit (TX);

806 MHz to 825 MHz TX

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not applicable

Current User(s)

Not specified

Source

Com-Net Ericsson

Operational Parameters

Number of Channels

Up to 16

Transmitter Power Output Levels

100 W

Battery Options

13.8 V dc, 100 AH (min) standby battery source

Battery Recharging Options

Not applicable

Physical Parameters

Size

37 in x 21.5 in x 18.25 in; or 69.1 in x 23.1 in x 21 in

Weight

150 lb or 520 lb

Power Requirements

120 V ac ($\pm 20\%$); 230 V ac ($\pm 15\%$); 13.8 V dc

External Power

Yes

Available Accessories

Speaker-Microphones

Not specified

Carrying Cases

Not applicable

WORKING DRAFT

Battery Eliminators	Not applicable
Vehicle Adapters	Not applicable
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Rugged
Environmental Conditions	-22 °F to 140 °F 90 % @ 122 °F relative humidity
Unit Cost	Greater than \$1K per unit
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	The modular design makes maintenance and servicing simple and fast
Interface Capability	Digital communications
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	FCC Type Acceptance No: AXATR-336-A2, Industry Canada Certification No (TR-329), Industry Canada Certification No (RSS-119)
Support Equipment	Test handset, antenna multicoupler, 50 Hz power supply, combiner, isolator, squelch-operated relay, voice guard encryption, aegis digital, switchable channel spacing, 4800/9600 data rate, plus programmable options
Warranty	Not specified
Mil Spec/Mil-Std Ratings	No
Intrinsically Safe	No

WORKING DRAFT

General

Name

ID# 25

ProVoice™ Orion™ Mobile 800 MHz



Model Number(s)

ProVoice™ Orion™ Mobile 800 MHz

Technology

Mobile, conventional and trunked

Manufacturer

Com-Net Ericsson Critical Radio Systems, Inc.
P.O. Box 2000
Lynchburg, Virginia 24501
800-431-2345 (Tel)
www.com-netericsson.com

POC: John Hobbs
804-385-2336 (Tel)

Secure Communication Capability

Encryption Technique: Nonlinear product/block transformation
Algorithm type: data encryption standard (DES)

Availability

Available

Frequency Range

806 MHz to 825 MHz
851 MHz to 870 MHz
Unlimited

Number of Personnel Supported by System

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

ComNet Ericsson

Operational Parameters

Number of Channels

EDACS System/group combinations: 800
192 conventional channels

Transmitter Power Output Levels

Watts are adjustable to 50 % of rated power
12 W, 35 W (806 MHz to 825 MHz)
30 W (851 MHz to 870 MHz)

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

2 in x 6.9 in x 9.3 in radio only

Weight

Not specified

Power Requirements

10.8 V dc to 16.6 V dc negative ground

WORKING DRAFT

External Power	Not applicable
<u>Available Accessories</u>	
Speaker-Microphones	Not applicable
Carrying Cases	Not applicable
Battery Eliminators	Not applicable
Vehicle Adapters	Not applicable
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Construction: Control unit: high impact plastic Transceiver: cast metal Weatherproof microphone with hookswitch
Environmental Conditions	-22 °F to 140 °F @ 90 % 50° relative humidity
Unit Cost	Not specified
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Field programmable using an IBM PC
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	FCC Certified (AXATR-318-A2 and AXATR-317-B2) Industry Canada Cert. (287-194-232 and 287-194-237)
Support Equipment	Remote mount kit, unity and gain antennas, adaptive multi-path pop filter (AMPF), and motorcycle kit
Warranty	Not specified
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	No

WORKING DRAFT

General

Name

***EFJohnson Auris Digital Base Station; RS-5601
VHF Single Channel***

ID# 26

Picture Not Available

Model Number(s)

RS-5601/11 VHF

Technology

Base station, conventional, digital

Manufacturer

EFJohnson
299 Johnson Ave.
P.O. Box 1249
Waseca, Minnesota 56093
507-835-6222 (Tel)
507-835-8356 (Fax)

POC: Dave Helfrich
507-835-9643 (Tel)
507-835-6283 (Fax)

Secure Communication Capability

No

Availability

Available

Frequency Range

136 MHz to 174 MHz

**Number of Personnel Supported by
System**

Unlimited

Geographic Coverage

Not applicable

Current User(s)

Not specified

Source

EFJohnson

Operational Parameters

Number of Channels

256 channels/talk groups per rapid channel

Transmitter Power Output Levels

60 W or 125 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

19 in x 14 in x 17.4 in

Weight

50 lb

Power Requirements

120 V ac/12 V dc revert or 12 V dc

External Power

Yes

Available Accessories

Speaker-Microphones

Yes

Carrying Cases

Not specified

WORKING DRAFT

Battery Eliminators

Not applicable

Vehicle Adapters

Not specified

Logistical Parameters

Programming

Dealer/User (authorized technician)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Standard Use

Environmental Conditions

-22 °F to 140 °F

Unit Cost

Greater than \$1K per unit

Battery Cycle Life

Not applicable

Rapid Charge Battery Cycle Life

Not applicable

Maintenance Cost

Not specified

Interface Capability

Capable of digital transmissions without an adapter

Special Requirements

Operator Skills Required

Average

Operator Training Requirements

Average

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Available

Warranty

1 yr with 2 yr optional

Mil Spec/Mil-Std Ratings

No

Intrinsically Safe

No

WORKING DRAFT

General

Name

***EFJohnson Auris Digital Repeater; RS-5601 VHF
Single Channel***

ID# 27

Picture Not Available

Model Number(s)

RS-5601/11 VHF

Technology

Repeater, conventional, digital

Manufacturer

EFJohnson
299 Johnson Ave.
P.O. Box 1249
Waseca, Minnesota 56093
507-835-6222 (Tel)
507-835-8356 (Fax)

POC: Dave Helfrich
507-835-9643 (Tel)
507-835-6283 (Fax)

Secure Communication Capability

Capable of secure transmissions without an accessory

Availability

Available

Frequency Range

136 MHz to 174 MHz

**Number of Personnel Supported by
System**

Unlimited

Geographic Coverage

Not applicable

Current User(s)

Not specified

Source

EFJohnson

Operational Parameters

Number of Channels

256 channels

Transmitter Power Output Levels

60 W or 125 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

19 in x 14 in x 17.4 in

Weight

50 lb

Power Requirements

12 V dc or 120 V ac/12 V dc revert

External Power

Yes

Available Accessories

Speaker-Microphones

Yes

Carrying Cases

Not specified

WORKING DRAFT

Battery Eliminators	Not applicable
Vehicle Adapters	Not specified
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Standard Use
Environmental Conditions	-22 °F to 140 °F
Unit Cost	Greater than \$1K per unit
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Capable of digital transmissions without an adapter
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	Available
Warranty	1 yr with 2 yr optional
Mil Spec/Mil-Std Ratings	No
Intrinsically Safe	No

WORKING DRAFT

General

Name

***EFJohnson Auris Digital Repeater; RS-5611 VHF
Dual Channel***

ID# 28

Picture Not Available

Model Number(s)

RS-5601/11 VHF

Technology

Repeater, conventional, digital

Manufacturer

EFJohnson
299 Johnson Ave.
P.O. Box 1249
Waseca, Minnesota 56093
507-835-6222 (Tel)
507-835-8356 (Fax)

POC: Dave Helfrich
507-835-9643 (Tel)
507-835-6283 (Fax)

Secure Communication Capability

Yes

Availability

Available

Frequency Range

136 MHz to 174 MHz

**Number of Personnel Supported by
System**

Unlimited

Geographic Coverage

Not applicable

Current User(s)

Not specified

Source

EFJohnson

Operational Parameters

Number of Channels

512 channels; 256 channels/radio channel

Transmitter Power Output Levels

60 W or 125 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

19 in x 14 in x 17.4 in

Weight

50 lb

Power Requirements

12 V dc or 120 V ac/12 V dc revert

External Power

Yes

Available Accessories

Speaker-Microphones

Yes

Carrying Cases

Not specified

WORKING DRAFT

Battery Eliminators

Not applicable

Vehicle Adapters

Not specified

Logistical Parameters

Programming

Dealer/User (authorized technician)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Standard Use

Environmental Conditions

-22 °F to 140 °F

Unit Cost

Greater than \$1K per unit

Battery Cycle Life

Not applicable

Rapid Charge Battery Cycle Life

Not applicable

Maintenance Cost

Not specified

Interface Capability

Digital compatibility

Special Requirements

Operator Skills Required

Average

Operator Training Requirements

Average

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Available

Warranty

1 yr with 2 yr optional

Mil Spec/Mil-Std Ratings

No

Intrinsically Safe

No

WORKING DRAFT

General

Name

***EFJohnson Auris Digital Base Station; RS-5611
VHF Dual Channel***

ID# 29

Picture Not Available

Model Number(s)

RS-5601/11 VHF

Technology

Base station, conventional, digital

Manufacturer

EFJohnson
299 Johnson Ave.
P.O. Box 1249
Waseca, Minnesota 56093
507-835-6222 (Tel)
507-835-8356 (Fax)

POC: Dave Helfrich
507-835-9643 (Tel)
507-835-6283 (Fax)

Secure Communication Capability

No

Availability

Available

Frequency Range

136 MHz to 174 MHz

**Number of Personnel Supported by
System**

Unlimited

Geographic Coverage

Not applicable

Current User(s)

Not specified

Source

EFJohnson

Operational Parameters

Number of Channels

512 channels, 256 channels/radio channel

Transmitter Power Output Levels

60 W or 125 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

19 in x 14 in x 17.4 in

Weight

50 lb

Power Requirements

12 V dc or 120 V ac/12 V dc revert

External Power

Yes

Available Accessories

Speaker-Microphones

Yes

Carrying Cases

Not specified

WORKING DRAFT

Battery Eliminators

Not applicable

Vehicle Adapters

Not applicable

Logistical Parameters

Programming

Dealer/User (authorized technician)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Standard use

Environmental Conditions

-22 °F to 140 °F

Unit Cost

Greater than \$1K per unit

Battery Cycle Life

Not applicable

Rapid Charge Battery Cycle Life

Not applicable

Maintenance Cost

Not specified

Interface Capability

Digital compatibility

Special Requirements

Operator Skills Required

Average

Operator Training Requirements

Average

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Available

Warranty

1 yr with 2 yr optional

Mil Spec/Mil-Std Ratings

No

Intrinsically Safe

No

WORKING DRAFT

General

Name

***EFJohnson Auris Digital Repeater/Basestation;
RS-5604 (Single Channel)/5614 (Dual Channel)
UHF***

ID# 30



Model Number(s)

RS-5604/14 UHF

Technology

Repeater, conventional, digital

Manufacturer

EFJohnson
299 Johnson Ave.
P.O. Box 1249
Waseca, Minnesota 56093
507-835-6222 (Tel)
507-835-8356 (Fax)

POC: Dave Helfrich
507-835-9643 (Tel)
507-835-6283 (Fax)

Secure Communication Capability

Repeater only

Availability

Available

Frequency Range

403 MHz to 512 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not applicable

Current User(s)

Not specified

Source

EFJohnson

Operational Parameters

Number of Channels

256 channels/radio channel

Transmitter Power Output Levels

60 W or 125 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

19 in x 14 in x 17.4 in

Weight

50 lb

Power Requirements

12 V dc or 120 V ac/120 V dc revert

External Power

Yes

Available Accessories

WORKING DRAFT

Speaker-Microphones

Yes

Carrying Cases

Not specified

Battery Eliminators

Not applicable

Vehicle Adapters

Not applicable

Logistical Parameters

Programming

Dealer/User (authorized technician)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Ruggedized

Environmental Conditions

-22 °F to 140 °F

Unit Cost

Greater than \$1K per unit

Battery Cycle Life

Not applicable

Rapid Charge Battery Cycle Life

Not applicable

Maintenance Cost

Not specified

Interface Capability

Digital communications

Special Requirements

Operator Skills Required

Average

Operator Training Requirements

Average

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Available

Warranty

1 yr with 2 yr optional

Mil Spec/Mil-Std Ratings

No

Intrinsically Safe

No

WORKING DRAFT

General

Name

EFJohnson Auris Repeater; RS-5604 (Single Channel)/5614 (Dual Channel) UHF

ID# 31



Model Number(s)

RS-5604 UHF

Technology

Repeater, conventional

Manufacturer

EFJohnson
299 Johnson Ave.
P.O. Box 1249
Waseca, Minnesota 56093
507-835-6222 (Tel)
507-835-8356 (Fax)

POC: Dave Helfrich
507-835-9643 (Tel)
507-835-6283 (Fax)

Secure Communication Capability

Capable of secure transmissions without an accessory

Availability

Available

Frequency Range

Not specified

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not applicable

Current User(s)

Not specified

Source

EFJohnson

Operational Parameters

Number of Channels

256 channels

Transmitter Power Output Levels

60 W or 125 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

19 in x 14 in x 17.4 in

Weight

50 lb

Power Requirements

12 V dc

External Power

Yes

WORKING DRAFT

Available Accessories

Speaker-Microphones	Yes
Carrying Cases	Not specified
Battery Eliminators	Not applicable
Vehicle Adapters	Not applicable

Logistical Parameters

Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Standard use
Environmental Conditions	-22 °F to 140 °F
Unit Cost	Greater than \$1K per unit
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Capable of digital transmissions without an adapter

Special Requirements

Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	Available
Warranty	1 yr with 2 yr optional
Mil Spec/Mil-Std Ratings	No
Intrinsically Safe	No

WORKING DRAFT

General

Name

EFJohnson Transceiver, Portable; 77xx-800 MHz

ID# 32

Picture Not Available

Model Number(s)

77xx-800 MHz

Technology

Portable, conventional and trunked

Manufacturer

EFJohnson
299 Johnson Ave.
P.O. Box 1249
Waseca, Minnesota 56093
507-835-6222 (Tel)
507-835-8356 (Fax)

Secure Communication Capability

POC: Dave Helfrich
507-835-9643 (Tel)
507-835-6283 (Fax)

Availability

No

Frequency Range

Available

Number of Personnel Supported by System

806 MHz to 870 MHz

Geographic Coverage

Unlimited

Current User(s)

Talk around and repeated

Source

Not specified

EFJohnson

Operational Parameters

Number of Channels

256 channels/talk groups

Transmitter Power Output Levels

3 W to 1 W

Battery Options

NiMH

Battery Recharging Options

Single unit rapid charger

Physical Parameters

Size

6.5 in x 2.2 in x 1.2 in

Weight

18 oz (with battery)

Power Requirements

7.2 V dc

External Power

No

Available Accessories

Speaker-Microphones

Yes

Carrying Cases

Leather cases, and belt clips

WORKING DRAFT

Battery Eliminators	Yes
Vehicle Adapters	No
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Environmental Conditions	-22 °F to 140 °F
Unit Cost	List price starting at \$1.1K
Battery Cycle Life	8 h at 5/5/90 cycle
Rapid Charge Battery Cycle Life	Not specified
Maintenance Cost	Not specified
Interface Capability	SmartNet/SmartZone trunking
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	FCC Part 15 and Canada Acceptance
Support Equipment	Chargers, leather cases, belt clips, speaker microphones, high capacity batteries, and programming accessories
Warranty	0 yr with 2 yr optional
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	Yes

WORKING DRAFT

General

Name

EFJohnson Transceiver, Portable; 98xx-800 MHz

ID# 33

Picture Not Available

Model Number(s)

98xx-800 MHz

Technology

Portable, conventional and trunked

Manufacturer

EFJohnson
299 Johnson Ave.
P.O. Box 1249
Waseca, Minnesota 56093
507-835-6222 (Tel)
507-835-8356 (Fax)

Secure Communication Capability

POC: Dave Helfrich
507-835-9643 (Tel)
507-835-6283 (Fax)

Availability

No

Frequency Range

Available

Number of Personnel Supported by System

806 MHz to 870 MHz

Geographic Coverage

Unlimited

Current User(s)

Talk around and repeated

Source

Not specified

EFJohnson

Operational Parameters

Number of Channels

256 channels/talk groups

Transmitter Power Output Levels

2 W to 30 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

6 in x 2.1 in x 7.5 in

Weight

3.5 lb

Power Requirements

13.6 V dc

External Power

Not applicable

Available Accessories

Speaker-Microphones

Not applicable

Carrying Cases

Not applicable

WORKING DRAFT

Battery Eliminators	Not applicable
Vehicle Adapters	Not applicable
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Standard use
Environmental Conditions	-22 °F to 140 °F
Unit Cost	List price starting at \$1.1K
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not applicable
Interface Capability	SmartNet/SmartZone trunking
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	FCC Part 15 and Canada Acceptance
Support Equipment	Remote mount, DTMF microphone, 12 W external speaker, multi-position mounting bracket, programming accessories
Warranty	1 yr with 2 yr optional
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	No

WORKING DRAFT

General

Name

ID# 34

EFJohnson Transceiver, Portable; 501x VHF



Model Number(s)

501x VHF

Technology

Portable, conventional and trunked

Manufacturer

EFJohnson
299 Johnson Ave.
P.O. Box 1249
Waseca, Minnesota 56093
507-835-6222 (Tel)
507-835-8356 (Fax)

POC: Dave Helfrich
507-835-9643 (Tel)
507-835-6283 (Fax)

Secure Communication Capability

Yes

Availability

Available

Frequency Range

136 MHz to 174 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Talk around and repeated

Current User(s)

Not specified

Source

EFJohnson

Operational Parameters

Number of Channels

256 channels/talk groups

Transmitter Power Output Levels

1 W to 5 W

Battery Options

Two types available, NiMH

Battery Recharging Options

Single unit rapid, multi unit rapid, trickle single unit

Physical Parameters

Size

2.4 in x 8.8 in x 1.9 in (without antenna)

Weight

29 oz (with battery)

Power Requirements

7.2 V dc

External Power

No

Available Accessories

Speaker-Microphones

Yes

WORKING DRAFT

Carrying Cases	Yes
Battery Eliminators	Not specified
Vehicle Adapters	No
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Environmental Conditions	-22 °F to 140 °F
Unit Cost	Analog list price starting at \$1.9K; P25 Digital list price starting at \$2.3K
Battery Cycle Life	13 h at 5/5/90 cycle
Rapid Charge Battery Cycle Life	Not specified
Maintenance Cost	Not specified
Interface Capability	Not specified
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	FCC Part 15 and Canada Acceptance
Support Equipment	Chargers, leather cases, belt clips, speaker microphones, high capacity batteries, and programming accessories
Warranty	1 yr with 2 yr optional
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	No

WORKING DRAFT

General

Name

ID# 35

EFJohnson Transceiver, Portable; 504x UHF



Model Number(s)

504x UHF

Technology

Portable, conventional and trunked

Manufacturer

EFJohnson
299 Johnson Ave.
P.O. Box 1249
Waseca, Minnesota 56093
507-835-6222 (Tel)
507-835-8356 (Fax)

POC: Dave Helfrich
507-835-9643 (Tel)
507-835-6283 (Fax)

Secure Communication Capability

Project 25 encryption options
SecureNet™ encryption options

Availability

Available

Frequency Range

403 MHz to 512 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Talk around and repeated

Current User(s)

Not specified

Source

EFJohnson

Operational Parameters

Number of Channels

256 channels/talk groups

Transmitter Power Output Levels

4 W to 1 W

Battery Options

NiMH

Battery Recharging Options

Single and multi-unit rapid chargers

Physical Parameters

Size

2.4 in x 8.8 in x 1.9 in (without antenna)

Weight

29 oz (with battery)

Power Requirements

7.2 V dc

External Power

No

Available Accessories

WORKING DRAFT

General

Speaker-Microphones

Speaker-microphone

Carrying Cases

Leather cases, belt clips

Battery Eliminators

Not specified

Vehicle Adapters

No

Logistical Parameters

Programming

Dealer/User (authorized technician)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Standard use

Polycarbonate case

Environmental Conditions

-22 °F to 140 °F

Unit Cost

Analog list price starting at \$1.9K; P25 Digital list price starting at \$2.3K

Battery Cycle Life

13 h at 5/5/90 cycle

Rapid Charge Battery Cycle Life

Single and multi-unit rapid chargers

Maintenance Cost

Not specified

Interface Capability

Digital communications; Smart Net/Smart Zone

Special Requirements

Operator Skills Required

Average

Operator Training Requirements

Average

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

FCC Part 15 and Canada Acceptance

Support Equipment

Chargers, leather cases with belt clips, speaker-microphone, high and medium capacity batteries, and programming accessories

Warranty

1 yr with 2 yr optional

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe

No

WORKING DRAFT

General

Name

ID# 36

EFJohnson Transceiver, Portable; 508x-800 MHz



Model Number(s)

508x-800 MHz

Technology

Portable, conventional and trunked

Manufacturer

EFJohnson
299 Johnson Ave.
P.O. Box 1249
Waseca, Minnesota 56093
507-835-6222 (Tel)
507-835-8356 (Fax)

POC: Dave Helfrich
507-835-9643 (Tel)
507-835-6283 (Fax)

Secure Communication Capability

Yes

Availability

Available

Frequency Range

806 MHz to 870 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Talk around and repeated

Current User(s)

Not specified

Source

EFJohnson

Operational Parameters

Number of Channels

256 channels/talk groups

Transmitter Power Output Levels

3 W to 1 W

Battery Options

NiMH

Battery Recharging Options

Single and multi-unit rapid chargers

Physical Parameters

Size

2.4 in x 8.8 in x 1.9 in (without antenna)

Weight

29 oz (with battery)

Power Requirements

7.2 V dc

External Power

No

Available Accessories

Speaker-Microphones

Speaker-microphone

WORKING DRAFT

Carrying Cases	Leather cases, belt clips
Battery Eliminators	Not specified
Vehicle Adapters	No
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Standard use Polycarbonate case
Environmental Conditions	-22 °F to 140 °F
Unit Cost	Analog list price starting at \$1.9K; P25 Digital list price starting at \$2.3K
Battery Cycle Life	13 h at 5/5/90 Cycle
Rapid Charge Battery Cycle Life	Single and multi-unit rapid chargers
Maintenance Cost	Not specified
Interface Capability	Digital communications; Smart Net/Smart Zone trunking
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	FCC Part 15 and Canada Acceptance
Support Equipment	Chargers, leather cases with belt clips, speaker-microphone, high and medium capacity batteries, and programming accessories
Warranty	1 yr with 2 yr optional
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	No

WORKING DRAFT

General

Name

ID# 37

EFJohnson Transceiver; 531x VHF



Model Number(s)

531x VHF

Technology

Mobile, conventional and trunked

Manufacturer

EFJohnson
299 Johnson Ave.
P.O. Box 1249
Waseca, Minnesota 56093
507-835-6222 (Tel)
507-835-8356 (Fax)

POC: Dave Helfrich
507-835-9643 (Tel)
507-835-6283 (Fax)

Secure Communication Capability

Compatibility with high-tier encrypted radio systems

Availability

Available

Frequency Range

136 MHz to 174 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Line of site and Repeated

Current User(s)

Not specified

Source

EFJohnson

Operational Parameters

Number of Channels

256 channels/talk groups

Transmitter Power Output Levels

10 W to 50 W variable or 100 W option

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

2.1 in x 7.2 in x 8.3 in

Weight

5.3 lb

Power Requirements

13.6 V dc

External Power

Not applicable

Available Accessories

Speaker-Microphones

Not applicable

WORKING DRAFT

Carrying Cases	Not applicable
Battery Eliminators	Not applicable
Vehicle Adapters	Not applicable
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Environmental Conditions	-22 °F to 140 °F
Unit Cost	Analog list price starting at \$2.4K; P25 Digital list price starting at \$2.8K
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Digital communications, Smart Net/Smart Zone trunking
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	FCC Part 15 and Canada Acceptance
Support Equipment	12 W external speaker, remote-mount conversion kit, spare control head kit, desk microphone, DTMF microphone, lockable mounting tray, and power supply
Warranty	1 yr with 2 yr optional
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	No

WORKING DRAFT

General

Name

ID# 38

EFJohnson Transceiver; 538x-800 MHz



Model Number(s)

538x-800 MHz

Technology

Mobile, conventional and trunked

Manufacturer

EFJohnson
299 Johnson Ave.
P.O. Box 1249
Waseca, Minnesota 56093
507-835-6222 (Tel)
507-835-8356 (Fax)

POC: Dave Helfrich
507-835-9643 (Tel)
507-835-6283 (Fax)

Secure Communication Capability

Compatibility with high-tier encrypted radio systems

Availability

Available

Frequency Range

806 MHz to 870 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Line of site and repeated

Current User(s)

Not specified

Source

EFJohnson

Operational Parameters

Number of Channels

256 channels/talk groups

Transmitter Power Output Levels

10 W to 50 W variable; 100 W option

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

2.1 in x 7.2 in x 8.3 in

Weight

5.3 lb

Power Requirements

13.6 V dc

External Power

Not applicable

Available Accessories

Speaker-Microphones

Not applicable

WORKING DRAFT

Carrying Cases	Not applicable
Battery Eliminators	Not applicable
Vehicle Adapters	Not applicable
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Environmental Conditions	-22 °F to 140 °F
Unit Cost	Analog list price starting at \$2.4K; P25 Digital list price starting at \$2.8K
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Digital communications; Smart Net/Smart Zone trunking
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	FCC Part 15 and Canada Acceptance
Support Equipment	12 W external speaker, remote-mount conversion kit, spare control head kit, desk microphone, DTMF microphone, lockable mounting tray, and power supply
Warranty	1 yr with 2 yr optional
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	No

WORKING DRAFT

General

Name

Icom VHF Transceiver, Portable; IC-F3

ID# 39



Model Number(s)

IC-F3

Technology

Portable, conventional; trunking capable with optional accessory board

Manufacturer

ICOM America Inc.
Corporate Headquarters
2380 – 116th Ave., NE
P.O. Box C-90029
Bellevue, Washington 98009-9029

Secure Communication Capability

POC: Mr. Ron Spencer
425-454-8155 (Tel)
425-454-1509 (Fax)
Voice scrambler units, nonrolling type and rolling type

Availability

Available

Frequency Range

136 MHz to 150 MHz or 146 MHz to 174 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

50+ with repeater; 12 mi line of sight

Current User(s)

U.S. Army soldier intercom

Source

ICOM

Operational Parameters

Number of Channels

32 channels

Transmitter Power Output Levels

Hi: 5 W; low: 1 W

Battery Options

Battery pack (8 AA batteries); 9.6 V/700 mAh;
9.6 V/1050 mAh

Battery Recharging Options

Wall charger, desktop charger, multi-charger, and dc power charger (connected to a cigarette lighter in vehicle)

Physical Parameters

Size

2.4 in x 5.5 in x 1.5 in

Weight

13.8 oz

Power Requirements

9.6 V dc

External Power

No

Available Accessories

WORKING DRAFT

Speaker-Microphones

Speaker microphone: Slim dimensions, equipped with an earphone jack and a transmit indicator; headset for hands-free operation, includes VOX, PTT, and “one-touch” PTT with a time-out timer

Carrying Cases

Yes

Battery Eliminators

Not specified

Vehicle Adapters

No

Logistical Parameters

Programming

Dealer/User (authorized technician) programmable

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Durable design features a one-piece polycarbonate front panel, aluminum die-cast frame and screw-type antenna. Radios are built to withstand demanding environments.

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$360

Battery Cycle Life

Not specified

Rapid Charge Battery Cycle Life

Rapid desktop and rapid multi-charger

Maintenance Cost

Not specified

Interface Capability

Not specified

Special Requirements

Operator Skills Required

Minimal

Operator Training Requirements

Minimal

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Chargers, battery pack, speaker-microphones, headset, belt clip, dc power cable, earphone, SmarTrunk™, and LTR Trunk

Warranty

2 yr

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe

No

WORKING DRAFT

General

Name

Icom VHF Transceiver, Portable; IC-F3S

ID# 40



Model Number(s)

IC-F3S

Technology

Portable, conventional; trunking capable with optional accessory board

Manufacturer

ICOM America Inc.
Corporate Headquarters
2380 – 116th Ave., NE
P.O. Box C-90029
Bellevue, Washington 98009-9029
POC: Mr. Ron Spencer
425-454-8155 (Tel)
425-454-1509 (Fax)

Secure Communication Capability

No

Availability

Available

Frequency Range

136 MHz to 150 MHz or 146 MHz to 174 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

50+ with repeater; 12 mi line of sight

Current User(s)

U.S.Army soldier intercom

Source

ICOM

Operational Parameters

Number of Channels

32 channels

Transmitter Power Output Levels

Hi: 5 W; low: 1 W

Battery Options

Battery pack (8 AA batteries); 9.6 V/700 mAh;
9.6 V/1050 mAh

Battery Recharging Options

Wall charger, desktop charger, multi-charger, dc power charger (connected to a cigarette lighter in vehicle)

Physical Parameters

Size

2.4 in x 5.5 in x 1.5 in

Weight

13.8 oz

Power Requirements

9.6 V dc

External Power

No

WORKING DRAFT

Available Accessories

Speaker-Microphones

Speaker microphone: Slim dimensions, equipped with an earphone jack and a transmit indicator; headset for hands-free operation, includes VOX, PTT, and “one-touch” PTT with a time-out timer

Carrying Cases

Yes

Battery Eliminators

Not specified

Vehicle Adapters

No

Logistical Parameters

Programming

Dealer/User (authorized technician) programmable

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Rugged, dependable construction

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$360

Battery Cycle Life

Not specified

Rapid Charge Battery Cycle Life

Rapid desktop and rapid multi-charger

Maintenance Cost

Not specified

Interface Capability

Not specified

Special Requirements

Operator Skills Required

Minimal

Operator Training Requirements

Minimal

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Chargers, battery pack, speaker-microphones, headset, belt clip, dc power cable, earphone, SmarTrunk™, and LTR Trunk

Warranty

2 yr

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe

No

WORKING DRAFT

General

Name

Icom VHF Transceiver, Portable; IC-F3GT/IC-F3GTS

ID# 41



Model Number(s)

IC-F3GT/IC-F3GTS

Technology

Portable, conventional; trunking capable with optional accessory board

Manufacturer

ICOM America Inc.
Corporate Headquarters
2380 – 116th Ave., NE
P.O. Box C-90029
Bellevue, Washington 98009-9029

POC: Mr. Ron Spencer
425-454-8155 (Tel)
425-454-1509 (Fax)

Secure Communication Capability

Yes, with optional accessory. Voice scrambler units, non-rolling type and rolling type.

Availability

Available

Frequency Range

136 MHz to 150 MHz, 146 MHz to 174 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

10 mi

Current User(s)

Not specified

Source

ICOM

Operational Parameters

Number of Channels

40 channels

Transmitter Power Output Levels

5 W 1.6 A
1 W 0.7 A

Battery Options

Batteries (6 AA)
NiCad, 7.2 V/1100 mAh
NiMH, 7.2 V/1650 mAh

Battery Recharging Options

Desktop charger, multi-charger

Physical Parameters

Size

2-1/8 in x 5-3/16 in x 1-7/16 in

Weight

13.1 oz

Power Requirements

7.2 V dc

WORKING DRAFT

External Power

No

Available Accessories

Speaker-Microphones

Speaker-microphone equipped with an earphone jack and a transmit indicator. Headset for hands-free operation, and an earphone provides clear audio in noisy environments.

Leather and nylon

Carrying Cases

Battery Eliminators

No

Vehicle Adapters

No

Logistical Parameters

Programming

Dealer/User (authorized technician) programmable

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Not specified

Environmental Conditions

-22 °F to 140 °F

Unit Cost

Less than or equal to \$500 per unit

Battery Cycle Life

8 h; 5/5/90

Rapid Charge Battery Cycle Life

Desktop rapid charger: charging time 1.5 h to 2 h and multi-charger for rapid charging up to 6 battery packs simultaneously (charging time 1.5 h to 2 h)

Maintenance Cost

Not specified

Interface Capability

Not specified

Special Requirements

Operator Skills Required

Minimal

Operator Training Requirements

Minimal

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Battery chargers, speaker-microphone, headset, belt clip, SmarTrunkTM, and LTR Trunk

Warranty

2 yr

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe

No

WORKING DRAFT

General

Name

Icom UHF Transceiver, Portable; IC-F4

ID# 42



Model Number(s)

IC-F4

Technology

Portable, conventional; trunking capable with optional accessory board

Manufacturer

ICOM America Inc.
Corporate Headquarters
2380 – 116th Ave., NE
P.O. Box C-90029
Bellevue, Washington 98009-9029

Secure Communication Capability

POC: Mr. Ron Spencer

425-454-8155 (Tel)

425-454-1509 (Fax)

Voice scrambler units, nonrolling type and rolling type

Availability

Available

Frequency Range

400 MHz to 430 MHz, 440 MHz to 470 MHz, 470 MHz to 500 MHz, or 490 MHz to 512 MHz to 520 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

50+ with repeater; 3 mi line of sight

Current User(s)

Not specified

Source

ICOM

Operational Parameters

Number of Channels

32 channels

Transmitter Power Output Levels

Hi: 4 W; low: 1 W

Battery Options

Battery pack (8 AA batteries); 9.6 V/700 mAh;
9.6 V/1050 mAh

Battery Recharging Options

Wall charger, desktop charger, multi-charger, and dc power charger (connected to a cigarette lighter in vehicle)

Physical Parameters

Size

2.4 in x 5.5 in x 1.5 in

Weight

13.8 oz

Power Requirements

9.6 V dc

External Power

No

Available Accessories

WORKING DRAFT

Speaker-Microphones

Speaker microphone: Slim dimensions, equipped with an earphone jack and a transmit indicator; headset for hands-free operation, includes VOX, PTT, and “one-touch” PTT with a time-out timer

Carrying Cases

Yes

Battery Eliminators

Not specified

Vehicle Adapters

No

Logistical Parameters

Programming

Dealer/User (authorized technician) programmable

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Durable design features a one-piece polycarbonate front panel, aluminum die-cast frame and screw-type antenna. Radios are built to withstand demanding environments.

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$392

Battery Cycle Life

Not specified

Rapid Charge Battery Cycle Life

Rapid desktop and rapid multi-charger

Maintenance Cost

Not specified

Interface Capability

Not specified

Special Requirements

Operator Skills Required

Minimal

Operator Training Requirements

Minimal

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Chargers, battery pack, speaker-microphones, headset, belt clip, dc power cable, earphone, SmarTrunk™, and LTR Trunk

Warranty

2 yr

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe

No

WORKING DRAFT

General

Name

ID# 43

Icom UHF Transceiver, Portable; IC-F4S



Model Number(s)

IC-F4S

Technology

Portable, conventional; trunking capable with optional accessory board

Manufacturer

ICOM America Inc.
Corporate Headquarters
2380 – 116th Ave., NE
P.O. Box C-90029
Bellevue, Washington 98009-9029

Secure Communication Capability

POC: Mr. Ron Spencer
425-454-8155 (Tel)
425-454-1509 (Fax)
No

Availability

Available

Frequency Range

400 MHz to 430 MHz or 440 MHz to 470 MHz
470 MHz to 500 MHz or 490 MHz to 512 MHz to
520 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

50+ with repeater; 3 mi line of sight

Current User(s)

Not specified

Source

ICOM

Operational Parameters

Number of Channels

32 channels

Transmitter Power Output Levels

Hi: 4 W; low: 1 W

Battery Options

Battery pack (8 AA batteries); 9.6 V/700 mAh;
9.6 V/1050 mAh

Battery Recharging Options

Wall charger, desktop charger, multi-charger, and dc power charger (connected to a cigarette lighter in vehicle)

Physical Parameters

Size

2.4 in x 5.5 in x 1.5 in

Weight

13.8 oz

Power Requirements

9.6 V dc

External Power

No

WORKING DRAFT

Available Accessories

Speaker-Microphones

Speaker microphone: Slim dimensions, equipped with an earphone jack and a transmit indicator; headset for hands-free operation, includes VOX, PTT, and “one-touch” PTT with a time-out timer.

Carrying Cases

Yes

Battery Eliminators

Not specified

Vehicle Adapters

No

Logistical Parameters

Programming

Dealer/User (authorized technician) programmable

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Rugged, dependable construction

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$392

Battery Cycle Life

Not specified

Rapid Charge Battery Cycle Life

Rapid desktop and rapid multi-charger

Maintenance Cost

Not specified

Interface Capability

Not specified

Special Requirements

Operator Skills Required

Minimal

Operator Training Requirements

Minimal

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Chargers, battery pack, speaker-microphones, headset, belt clip, dc power cable, earphone, SmarTrunk™, and LTR Trunk

Warranty

2 yr

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe

No

WORKING DRAFT

General

Name

Icom UHF Transceiver, Portable; IC-F4GT/IC-F4GTS

ID# 44



Model Number(s)

IC-F4GT/IC-F4GTS (F3GT shown)

Technology

Portable, conventional; trunking capable with optional accessory board

Manufacturer

ICOM America Inc.
Corporate Headquarters
2380 – 116th Ave., NE
P.O. Box C-90029
Bellevue, Washington 98009-9029

Secure Communication Capability

POC: Mr. Ron Spencer
425-454-8155 (Tel)
425-454-1509 (Fax)
Yes, with optional accessory. Voice scrambler units, non-rolling type and rolling type.

Availability

Available

Frequency Range

400 MHz to 430 MHz, 440 MHz to 470 MHz, 470 MHz to 500 MHz, 490 MHz to 512 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

10 mi

Current User(s)

Not specified

Source

ICOM

Operational Parameters

Number of Channels

40 channels

Transmitter Power Output Levels

4 W 1.5 A

Battery Options

Batteries (6 AA)
NiCad, 7.2 V/1100 mAh
NiMH, 7.2 V/1650 mAh

Battery Recharging Options

Desktop charger, and multi-charger

Physical Parameters

Size

2-1/8 in x 5-3/16 in x 1-7/16 in

Weight

13.1 oz

WORKING DRAFT

Power Requirements

7.2 V dc

External Power

No

Available Accessories

Speaker-Microphones

Speaker-microphone equipped with an earphone jack and a transmit indicator. Headset for hands-free operation, and an earphone provides clear audio in noisy environments.

Carrying Cases

Not specified

Battery Eliminators

Not specified

Vehicle Adapters

No

Logistical Parameters

Programming

Dealer/User (authorized technician) programmable

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Not specified

Environmental Conditions

-22 °F to 140 °F

Unit Cost

Less than or equal to \$500 per unit

Battery Cycle Life

8 h; 5/5/90

Rapid Charge Battery Cycle Life

Desktop rapid charger: charging time 1.5 h to 2 h and multi-charger for rapid charging up to 6 battery packs simultaneously (charging time 1.5 h to 2 h)

Maintenance Cost

Not specified

Interface Capability

Not specified

Special Requirements

Operator Skills Required

Minimal

Operator Training Requirements

Minimal

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Battery chargers, speaker-microphone, headset, belt clip, SmarTrunk™, and LTR Trunk

Warranty

2 yr

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe

No

WORKING DRAFT

General

Name

Icom VHF Mobile Transceiver; IC-F1020

ID# 45



Model Number(s)

IC-F1020

Technology

Mobile, conventional; trunking capable with optional accessory board

Manufacturer

ICOM America Inc.
Corporate Headquarters
2380 – 116th Ave., NE
P.O. Box C-90029
Bellevue, Washington 98009-9029

POC: Mr. Ron Spencer

425-454-8155 (Tel)

425-454-1509 (Fax)

No

Secure Communication Capability

Availability

Available

Frequency Range

136 MHz to 155 MHz

146 MHz to 174 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

50+ with repeater; 10 mi line of sight

Current User(s)

Not specified

Source

ICOM

Operational Parameters

Number of Channels

32 standard

160 optional

Transmitter Power Output Levels

Hi: 45 W; low: 4.5 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

5.9 in x 2 in x 7 in

Weight

3.3 lb

Power Requirements

13.6 \pm V dc (15 % negative ground)

External Power

Not applicable

Available Accessories

Speaker-Microphones

Not applicable

WORKING DRAFT

Carrying Cases	Not applicable
Battery Eliminators	Not applicable
Vehicle Adapters	Not applicable
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician) programmable
Repairs	Dealer
Decontamination	Can be fully decontaminated
Durability/Ruggedness	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E; shock and vibration
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$599
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Not specified
<u>Special Requirements</u>	
Operator Skills Required	Minimal
Operator Training Requirements	Minimal
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	ACC cable (for external terminal connection), separation kit (for front panel detachment installation), external speaker, 2–tone unit, 5–tone unit, SmarTrunk II™ and Logic Board
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	Not specified

WORKING DRAFT

General

Name

ID# 46

Icom UHF Mobile Transceiver; IC-F2020



Model Number(s)

IC-F2020

Technology

Mobile, conventional; trunking capable with optional accessory board

Manufacturer

ICOM America Inc.
Corporate Headquarters
2380 – 116th Ave., NE
P.O. Box C-90029
Bellevue, Washington 98009-9029

Secure Communication Capability

POC: Mr. Ron Spencer
425-454-8155 (Tel)
425-454-1509 (Fax)
No

Availability

Available

Frequency Range

400 MHz to 430 MHz
450 MHz to 470 MHz
470 MHz to 490 MHz
490 MHz to 512 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

50+ with repeater; 10 mi line of sight

Current User(s)

Not specified

Source

ICOM

Operational Parameters

Number of Channels

32 standard, 160 optional

Transmitter Power Output Levels

Hi: 35 W; low: 2 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

5.9 in x 2 in x 7 in

Weight

3.3 lb

Power Requirements

13.6 \pm V dc (15 % negative ground)

External Power

Not applicable

WORKING DRAFT

Available Accessories

Speaker-Microphones	Not applicable
Carrying Cases	Not applicable
Battery Eliminators	Not applicable
Vehicle Adapters	Not applicable

Logistical Parameters

Programming	Dealer/User (authorized technician) programmable
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Not applicable
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$650
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Not specified

Special Requirements

Operator Skills Required	Minimal
Operator Training Requirements	Minimal
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	ACC cable (for external terminal connection), separation kit (for front panel detachment installation), external speaker, 2-tone unit, 5-tone unit, SmartTrunk II* and Logic Board
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	Not specified

WORKING DRAFT

General

Name

Icom VHF Mobile Transceiver; IC-F320/IC-F420

ID# 47



Model Number(s)

IC-F320/IC-F420

Technology

Mobile, conventional; trunking capable with optional accessory board

Manufacturer

ICOM America Inc.
Corporate Headquarters
2380 – 116th Ave., NE
P.O. Box C-90029
Bellevue, Washington 98009-9029

POC: Mr. Ron Spencer

425-454-8155 (Tel)

425-454-1509 (Fax)

No

Secure Communication Capability

Availability

Available

Frequency Range

Frequency range varies according to versions
IC-F320: 136 MHz to 155 MHz or 146 MHz to 174 MHz
IC-F420: 400 MHz to 430 MHz, 450 MHz to 470 MHz,
470 MHz to 490 MHz, 490 MHz to 512 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

50+ with repeater; 10 mi line of sight

Current User(s)

Not specified

Source

ICOM

Operational Parameters

Number of Channels

32 channels (16 x 2 banks)

Transmitter Power Output Levels

IC-F320: 45 W

IC-F420: 35 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

5.5 in x 1.6 in x 6.7 in

Weight

2.6 lb

Power Requirements

13.6 ± V dc (15 % negative ground)

WORKING DRAFT

External Power	Not applicable
<u>Available Accessories</u>	
Speaker-Microphones	Not applicable
Carrying Cases	Not applicable
Battery Eliminators	Not applicable
Vehicle Adapters	Not applicable
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician) programmable
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Not applicable
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$379
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Not specified
<u>Special Requirements</u>	
Operator Skills Required	Minimal
Operator Training Requirements	Minimal
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	5-tone unit, SmarTrunk II* Logic Board, external speaker, ACC cable, DTMF microphone, and LTR Trunk
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	Not specified

WORKING DRAFT

General

Name

Icom UHF Mobile Transceiver; IC-F320S/ IC-F420S

ID# 48



Model Number(s)

IC-F320S/IC-F420S

Technology

Mobile, conventional; trunking capable with optional accessory board

Manufacturer

ICOM America Inc.
Corporate Headquarters
2380 – 116th Ave., NE
P.O. Box C-90029
Bellevue, Washington 98009-9029

Secure Communication Capability

POC: Mr. Ron Spencer
425-454-8155 (Tel)
425-454-1509 (Fax)
Optional voice scrambler units allow operating security

Availability

Available

Frequency Range

Frequency range varies according to versions
IC-F320: 136 MHz to 155 MHz or 146 MHz to 174 MHz
IC-F420: 400 MHz to 430 MHz, 450 MHz to 470 MHz,
470 MHz to 490 MHz, 490 MHz to 512 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

50+ with repeater; 10 mi line of sight

Current User(s)

Not specified

Source

ICOM

Operational Parameters

Number of Channels

4 channels

Transmitter Power Output Levels

IC-F320S: 45 W of RF output, adjustable through cloning-fixed power outputs of 45 W, 25 W, and 4.5 W can be adjusted through programming. IC-F420S: 35 W of RF output, adjustable through cloning-fixed power outputs of 35 W, 20 W, and 3.5 W can be adjusted through programming.

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

WORKING DRAFT

Size	5.5 in x 1.6 in x 6.7 in
Weight	2.6 lb
Power Requirements	13.6 V dc (15 % negative ground)
External Power	Not applicable
<u>Available Accessories</u>	
Speaker-Microphones	Not applicable
Carrying Cases	Not applicable
Battery Eliminators	Not applicable
Vehicle Adapters	Not applicable
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician) programmable
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Not specified
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$420
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Not specified
<u>Special Requirements</u>	
Operator Skills Required	Minimal
Operator Training Requirements	Minimal
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	ACC cable, dc power cables, external speakers, hand microphones, and LTR Trunk
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Not applicable
Intrinsically Safe	Not specified

WORKING DRAFT

General

Name

Icom VHF Transceiver, Portable; IC-F30GS/IC-F30GT

ID# 49



Model Number(s)

IC-F30GS

IC-30FGT

Technology

Portable, conventional; trunking capable with optional accessory board

Manufacturer

ICOM America Inc.
Corporate Headquarters
2380 – 116th Ave., NE
P.O. Box C–90029
Bellevue, Washington 98009–9029

Secure Communication Capability

POC: Mr. Ron Spencer
425–454–8155 (Tel)
425–454–1509 (Fax)
Yes, scrambling or rolling code

Availability

Available

Frequency Range

136 MHz to 174 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

12 mi to 15 mi line of sight

Current User(s)

Not specified

Source

ICOM

Operational Parameters

Number of Channels

256 memory channels, 12 character names, up to 16 banks

Transmitter Power Output Levels

Hi: 5 W; low: dealer programmable

Battery Options

AA battery case, 1100 mAh NiCad, 1650 mAh NiMHD

Battery Recharging Options

DTC charger, rapid charger, 6–unit charger, and charger adapter

Physical Parameters

Size

2.4 in x 5.5 in x 1.7 in

Weight

24 oz

Power Requirements

7.2 V dc

External Power

Yes

Available Accessories

Speaker-Microphones

Speaker microphones provide hands-free operation

WORKING DRAFT

Carrying Cases Not specified

Battery Eliminators Not specified

Vehicle Adapters Not specified

Logistical Parameters

Programming Dealer/User (authorized technician) programmable

Repairs Dealer

Decontamination Not specified

Durability/Ruggedness Rugged construction, backlit keypad, 1550 NiMH battery standard, one-piece aluminum die-cast chassis
Meets Mil-Std requirements and strict environmental standards

Environmental Conditions -22 °F to 140 °F

Unit Cost Greater than \$500 but less than \$1K per unit

Battery Cycle Life Not specified

Rapid Charge Battery Cycle Life Rapid desktop and multi-charger

Maintenance Cost Not specified

Interface Capability Not specified

Special Requirements

Operator Skills Required Minimal

Operator Training Requirements Minimal

Training Available Yes

Manuals Available Yes

Applicable Regulations Not specified

Support Equipment Chargers, battery pack, speaker microphone, ac adapter for use with charger, belt clip, keypad, SmarTrunk II™ Logic Board, and LTR Trunk

Warranty Not specified

Mil Spec/Mil-Std Ratings Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe Yes

WORKING DRAFT

General

Name

*Icom VHF Transceiver, Portable;
IC-F30LT Land Use
IC-F30LT Marine Version*

ID# 50



Model Number(s)

IC-F30LT (Land Version) (Marine Version)

Technology

Portable, conventional; trunking capable with optional accessory board

Manufacturer

ICOM America Inc.
Corporate Headquarters
2380 – 116th Ave., NE
P.O. Box C-90029
Bellevue, Washington 98009-9029

Secure Communication Capability

POC: Mr. Ron Spencer
425-454-8155 (Tel)
425-454-1509 (Fax)
(Land) Yes, simple inversion or rolling code
(Marine) Yes, with optional accessory. Voice scrambler units, nonrolling type and rolling type.

Availability

Available

Frequency Range

136 MHz to 150 MHz or 146 MHz to 174 MHz (Land Model)
156.025 MHz to 157.425 MHz (Marine Model)
Unlimited

Number of Personnel Supported by System

Geographic Coverage

(Land) 12 mi to 15 mi line of sight
(Marine) 50+ with repeater; 12 mi to 15 mi line of sight
Not specified

Current User(s)

ICOM

Source

Operational Parameters

Number of Channels

IC-F30LT: 99

Transmitter Power Output Levels

Hi: 5 W; low: dealer programmable

Battery Options

Batteries (6 AA); NiCad, 7.2 V/1100 mAh;
NiMH, 7.2 V/1650 mAh; and NiCad battery pack for intrinsically safe operation

Battery Recharging Options

Desktop charger, multi-charger

Physical Parameters

Size

2.4 in x 5.5 in x 1.7 in

Weight

24 oz

WORKING DRAFT

Power Requirements	7.2 V dc
External Power	No
<u>Available Accessories</u>	
Speaker-Microphones	Speaker-microphone provides convenient, lightweight operation while hanging the transceiver on a belt
Carrying Cases	Yes
Battery Eliminators	No
Vehicle Adapters	No
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician) programmable
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Polycarbonate case over a one-piece die-cast aluminum frame and a durable screw-base antenna ensure reliability under demanding commercial operations. Meets Mil-Std requirements and strict environmental standards.
Environmental Conditions	-22 °F to 140 °F Hazardous marine environments (Marine Version)
Unit Cost	Greater than \$500 but less than \$1K per unit
Battery Cycle Life	Not specified
Rapid Charge Battery Cycle Life	Desktop charger for rapid charging a battery pack (charging time 2 h). Multi-charger for charging up to 6 batteries simultaneously (charging time 6 h).
Maintenance Cost	Not specified
Interface Capability	Not specified
<u>Special Requirements</u>	
Operator Skills Required	Minimal
Operator Training Requirements	Minimal
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	Chargers, NiCad/NiMH battery pack, speaker-microphones, ac adapter for charger, speaker-microphone, belt clip, keypad, SmarTrunk II™ Logic Board, and LTR Trunk
Warranty	2 yr
Mil Spec/Mil-Std Ratings	(Land) Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E. (Marine) Meets Mil Spec 810C and Mil Spec 810D
Intrinsically Safe	Yes

WORKING DRAFT

General

Name

Icom UHF Transceiver, Portable; IC-F40GS/IC-F40GT

ID# 51



IC-F40GS



IC-F40GT

Model Number(s)

Technology

Portable, conventional; trunking capable with optional accessory board

Manufacturer

ICOM America Inc.
Corporate Headquarters
2380 – 116th Ave., NE
P.O. Box C-90029
Bellevue, Washington 98009-9029

POC: Mr. Ron Spencer
425-454-8155 (Tel)
425-454-1509 (Fax)
Yes, scrambling or rolling code

Secure Communication Capability

Availability

Available

Frequency Range

400 MHz to 430 MHz, 450 MHz to 490 MHz,
480 MHz to 512 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

50+ with repeater; 12 mi line of sight

Current User(s)

Not specified

Source

ICOM

Operational Parameters

Number of Channels

256 memory channels, 12 character names, up to 16 banks

Transmitter Power Output Levels

Hi: 5 W VHF and 4 W UHF

Battery Options

AA battery case, 1100 mAh NiCad, 1650 mAh NiMHD

Battery Recharging Options

DTC charger, rapid charger, 6-unit charger, and charger adapter

Physical Parameters

Size

2.4 in x 5.5 in x 1.7 in

Weight

24 oz

Power Requirements

7.2 V dc

External Power

Yes, ac and AD adapters

WORKING DRAFT

Available Accessories

Speaker-Microphones
Carrying Cases
Battery Eliminators
Vehicle Adapters

Cell-phone type speaker-microphone
Yes
No
Yes

Logistical Parameters

Programming
Repairs
Decontamination
Durability/Ruggedness

Dealer/User (authorized technician) programmable
Dealer
Not specified
Rugged construction, backlit keypad, 1550 NiMH battery standard, and one-piece aluminum die-cast chassis. Meets Mil-Std requirements and strict environmental standards.

Environmental Conditions
Unit Cost
Battery Cycle Life
Rapid Charge Battery Cycle Life
Maintenance Cost
Interface Capability

-22 °F to 140 °F
Greater than \$500 but less than \$1K per unit
Not specified
Rapid desktop and multi-charger
Not specified
Data communications

Special Requirements

Operator Skills Required
Operator Training Requirements
Training Available
Manuals Available
Applicable Regulations
Support Equipment

Minimal
Minimal
Yes
Yes
Not specified
Chargers, battery pack, speaker-microphones, ac adapter for use with charger, speaker-microphone, case, keypad, SmarTrunk IITM and Logic Board

Warranty
Mil Spec/Mil-Std Ratings
Intrinsically Safe

2 yr
Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Pending

WORKING DRAFT

General

Name

*Icom UHF Transceiver, Portable;
IC-F40LT Land Use
IC-F40M/IC-F40LT Marine Version*

ID# 52



Model Number(s)

IC- F40LT (Land Use)
IC-F40M/IC-F40LTM (Marine Version)

Technology

Portable, conventional; trunking capable with optional accessory board

Manufacturer

ICOM America Inc.
Corporate Headquarters
2380 – 116th Ave., NE
P.O. Box C-90029
Bellevue, Washington 98009-9029

Secure Communication Capability

POC: Mr. Ron Spencer
425-454-8155 (Tel)
425-454-1509 (Fax)
(Land) Yes, simple inversion or rolling code.
(Marine) Yes, with optional accessory. Voice scrambler units, nonrolling type and rolling type.

Availability

Available

Frequency Range

400 MHz to 430 MHz, 430 MHz to 470 MHz,
470 MHz to 520 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

10 mi

Current User(s)

Not specified

Source

ICOM

Operational Parameters

Number of Channels

Marine: up to 83; LMR: up to 16

Transmitter Power Output Levels

Hi: 5 W; low: 1 W

Battery Options

Batteries (6 AA)
NiCad, 7.2 V/1100 mAh
NiCad battery pack for Intrinsically safe operation,
NiMH, 7.2 V/1650 mAh
Desktop charger, and multi-charger

Battery Recharging Options

Physical Parameters

Size

2.4 in x 5.5 in x 1.7 in

WORKING DRAFT

Weight	17.6 oz
Power Requirements	7.2 V dc
External Power	No
<u>Available Accessories</u>	
Speaker-Microphones	Speaker-microphone provides convenient, lightweight operation while hanging the transceiver on a belt
Carrying Cases	Yes
Battery Eliminators	No
Vehicle Adapters	No
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician) programmable
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Polycarbonate case over a one-piece die-cast aluminum frame and a durable screw-base antenna ensure reliability under demanding commercial operations. Meets Mil-Std requirements and strict environmental standards.
Environmental Conditions	-22 °F to 140 °F Hazardous marine environments
Unit Cost	\$585
Battery Cycle Life	Not specified
Rapid Charge Battery Cycle Life	Desktop charger for rapid charging a battery pack (charging time 2 h). Multi-charger for charging up to 6 batteries simultaneously (charging time 6 h).
Maintenance Cost	Not specified
Interface Capability	Not specified
<u>Special Requirements</u>	
Operator Skills Required	Minimal
Operator Training Requirements	Minimal
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	Chargers, battery pack, speaker-microphones, ac adapter for use with charger, speaker-microphone, belt clip, keypad, SmarTrunk II™ and Logic Board
 Warranty	 2 yr
Mil Spec/Mil-Std Ratings	(Land) Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E. (Marine) Meets Mil Spec 810C and Mil Spec 810D.
 Intrinsically Safe	 Yes

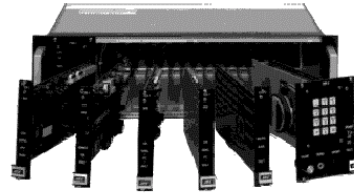
WORKING DRAFT

General

Name

ID# 53

Modular Interconnect System, ACU-1000



Model Number(s)

ACU-1000

Technology

Interconnect
Conventional Modular Interface/Interconnect System

Manufacturer

JPS Communications, Inc.
5720M Capital Blvd.
Raleigh, North Carolina 27616
919-790-1011 (Tel)
919-790-1456 (Fax)

e-mail: jps@jps.com
<http://www.jps.com>

Secure Communication Capability

Yes

Availability

Available

Frequency Range

Each module is designed to connect to a specific communications medium (VHF/UHF radio, telephone or Satcom, HF radio, and local operator)

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

U.S. Army Corps of Engineers, and Federal Emergency Management Agency

Source

JPS Communications
<http://www.jps.com>

Operational Parameters

Number of Channels

Provides communications interoperability between HF, VHF low band, VHF high band, UHF, 800 MHz, trunking talk-groups and encrypted networks

Transmitter Power Output Levels

Not specified

Battery Options

Not specified

Battery Recharging Options

Built-in 1 A capacity battery charger

Physical Parameters

Size

5.3 in x 19 in x 11 in

Weight

Not specified

Power Requirements

115 V ac to 230 V ac
+12 V, +24 V dc to 28 V dc, or external battery

WORKING DRAFT

External Power	External and internal
<u>Available Accessories</u>	
Speaker-Microphones	Yes
Carrying Cases	Yes
Battery Eliminators	Not specified
Vehicle Adapters	Yes
<u>Logistical Parameters</u>	
Programming	Yes
Repairs	Not specified
Decontamination	Not specified
Durability/Ruggedness	HAZMAT, EMS, fire, and law enforcement use
Environmental Conditions	Operating: -43.6 °F to 140 °F Storage: -40 °F to 185 °F, and up to 95 % @ 131 °F
Unit Cost	Not specified
Battery Cycle Life	Not specified
Rapid Charge Battery Cycle Life	Yes
Maintenance Cost	Not specified
Interface Capability	Yes
<u>Special Requirements</u>	
Operator Skills Required	Not specified
Operator Training Requirements	Not specified
Training Available	Not specified
Manuals Available	Not specified
Applicable Regulations	Not specified
Support Equipment	Available
Warranty	Not specified
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810D, Method 516.3, Procedure VI and Mil Spec 810D, Method 514.3, and Category I
Intrinsically Safe	Not specified

WORKING DRAFT

General

Name

*Transportable Radio Interconnect System,
TRP-1000*

ID# 54



Model Number(s)

TRP-1000

Technology

Interconnect, trunking/conventional Transportable Radio Interconnect System

Manufacturer

JPS Communications, Inc.
5720M Capital Blvd.
Raleigh, North Carolina 27616
919-790-1011 (Tel)
919-790-1456 (Fax)

e-mail: jps@jps.com

<http://www.jps.com>

Yes

Secure Communication Capability

Availability

Available

Frequency Range

Not applicable

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

U.S. Army Corps of Engineers, and Federal Emergency Management Agency

Source

JPS Communications

<http://www.jps.com>

Operational Parameters

Number of Channels

Provides communications interoperability between HF, VHF low band, VHF high band, UHF, 800 MHz, trunking talk-groups and encrypted networks

Transmitter Power Output Levels

Not specified

Battery Options

Not specified

Battery Recharging Options

Not specified

Physical Parameters

Size

Not specified

Weight

Not specified

Power Requirements

Not specified

External Power

No

WORKING DRAFT

Available Accessories

Speaker-Microphones	Not applicable
Carrying Cases	Yes
Battery Eliminators	Not specified
Vehicle Adapters	Not specified

Logistical Parameters

Programming	Not specified
Repairs	Not specified
Decontamination	Not specified
Durability/Ruggedness	HAZMAT, EMS, fire, and law enforcement use
Environmental Conditions	Not specified
Unit Cost	Not specified
Battery Cycle Life	Not specified
Rapid Charge Battery Cycle Life	Not specified
Maintenance Cost	Not specified
Interface Capability	Yes

Special Requirements

Operator Skills Required	Not specified
Operator Training Requirements	Not specified
Training Available	Not specified
Manuals Available	Not specified
Applicable Regulations	Not specified
Support Equipment	Available
Warranty	Not specified
Mil Spec/Mil-Std Ratings	Not specified
Intrinsically Safe	Not specified

WORKING DRAFT

General

Name

***Kenwood Synthesized FM Portable Radio;
TK-260/G***

ID# 55



Model Number(s)

TK-260/G

Technology

Portable, conventional; trunking capable with optional accessory board

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

No

Availability

Available

Frequency Range

150 MHz to 174 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

8 channels

Transmitter Power Output Levels

Hi: 5 W; low: 1 W

Battery Options

NiCad (7.2 V, 600 mAh)
NiCad (7.2 V, 1100 mAh)

Battery Recharging Options

Regular rate charger, rapid charger, conditioning rapid battery charger, multi-charger adapter, regular rate and rapid rate vehicular charger adapter

Physical Parameters

Size

2.3 in x 5.3 in x 1.3 in

Weight

14 oz with battery and antenna

Power Requirements

7.5 V dc

External Power

No

WORKING DRAFT

Available Accessories

Speaker-Microphones

Speaker microphone, compact low-profile speaker microphone, earphone, headset, and lapel microphone with earphone

Carrying Cases

Leather case, swivel case adapter, swivel belt loop, and water-resistant bag

Battery Eliminators

Not specified

Vehicle Adapters

No

Logistical Parameters

Programming

Dealer/User (authorized technician)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Monocoque aluminum die-cast chassis-heat sink surrounded by polycarbonate case. Gasket seals and polyvinyl speaker cone prevent moisture penetration for wet weather use.

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$380

Battery Cycle Life

At least 4 h with 5/5/90 cycle

Rapid Charge Battery Cycle Life

Rapid charger, conditioning rapid battery charger, and rapid rate vehicular charger

Maintenance Cost

Not specified

Interface Capability

Not specified

Special Requirements

Operator Skills Required

Average

Operator Training Requirements

Average

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Battery, battery case, chargers, microphone, earphone, coil cord, antenna, belt hook, leather case, and water-resistant bag

Warranty

2 yr

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe

No

WORKING DRAFT

General

Name

***Kenwood Synthesized FM Portable Radio;
TK-270/G***

ID# 56

Picture Not Available

Model Number(s)

TK-270/G

Technology

Portable, conventional; trunking capable with accessory

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

No

Availability

Available

Frequency Range

150 MHz to 174 MHz
136 MHz to 150 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

128 channels

Transmitter Power Output Levels

Hi: 5 W; low: 1 W

Battery Options

AA alkaline batteries
NiCad (7.2 V, 600 mAh)
NiCad (7.2 V, 1100 mAh)

Battery Recharging Options

Six unit charger adapter, regular rate single unit desk charger, 220 V regular rate single unit desk charger, rapid rate single unit desk charger, 220 V rapid rate single unit desk charger, rapid rate dc vehicular charger, and rapid rate dc vehicular charger

Physical Parameters

Size

2.3 in x 5.3 in x 1.3 in

Weight

14 oz with battery and antenna

Power Requirements

7.5 V dc

External Power

No

WORKING DRAFT

Available Accessories

Speaker-Microphones

Carrying Cases

Microphone and speakers, heavy duty and light duty

Heavy duty carrying case with bungi-cord, cordura nylon carrying case, water-resistant bag, and rubber protective case

Not specified

No

Battery Eliminators

Vehicle Adapters

Logistical Parameters

Programming

Dealer/User (authorized technician)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Monocoque aluminum die-cast chassis-heat sink surrounded by polycarbonate case. Gasket seals and polyvinyl speaker cone prevent moisture penetration for wet weather use.

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$465

Battery Cycle Life

At least 4 h with 5/5/90 cycle

Rapid Charge Battery Cycle Life

Rapid rate single unit desk charger, rapid rate single unit battery charger with preconditioning discharge features, and rapid rate dc vehicular charger adapter

Maintenance Cost

Not specified

Interface Capability

Not specified

Special Requirements

Operator Skills Required

Average

Operator Training Requirements

Average

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Microphone and speakers, service related accessories, antennas, batteries and chargers, carrying accessories, and digital radio camera

Warranty

2 yr

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe

No

WORKING DRAFT

General

Name

***Kenwood Synthesized FM Portable Radio;
TK-360/G***

ID# 57



Model Number(s)

TK-360/G

Technology

Portable, conventional; trunking capable with accessory

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

No

Availability

Available

Frequency Range

450 MHz to 470 MHz

**Number of Personnel Supported by
System**

Unlimited

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

8 channels

Transmitter Power Output Levels

Hi: 4 W; low: 1 W

Battery Options

NiCad (7.2 V, 600 mAh)
NiCad (7.2 V, 1100 mAh)

Battery Recharging Options

Regular rate charger, rapid charger, conditioning rapid
battery charger, multi-charger adapter, regular rate and
rapid rate vehicular charger adapter

Physical Parameters

Size

2.3 in x 5.3 in x 1.3 in

Weight

14.4 oz

Power Requirements

7.5 V dc

External Power

No

WORKING DRAFT

Available Accessories

Speaker-Microphones

Speaker microphone, compact low-profile speaker microphone, earphone, headset, and lapel microphone with earphone

Carrying Cases

Leather case, swivel case adapter, swivel belt loop, and water-resistant bag

Battery Eliminators

Not specified

Vehicle Adapters

No

Logistical Parameters

Programming

Dealer/User (authorized technician)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Monocoque aluminum die-cast chassis-heat sink surrounded by polycarbonate case. Gasket seals and polyvinyl speaker cone prevent moisture penetration for wet weather use.

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$430

Battery Cycle Life

At least 4 h with 5/5/90 cycle

Rapid Charge Battery Cycle Life

Rapid charger, conditioning rapid battery charger, and rapid rate vehicular charger

Maintenance Cost

Not specified

Interface Capability

Not specified

Special Requirements

Operator Skills Required

Average

Operator Training Requirements

Average

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Battery, battery case, chargers, microphone, earphone, coil cord, antenna, belt hook, leather case, and water-resistant bag

Warranty

2 yr

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe

No

WORKING DRAFT

General

Name

***Kenwood Synthesized FM Portable Radio;
TK-370/G***

ID# 58



Model Number(s)

TK-370/G

Technology

Portable, conventional; trunking capable with accessory

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

No

Availability

Available

Frequency Range

450 MHz to 470 MHz
470 MHz to 490 MHz
490 MHz to 512 MHz
403 MHz to 430 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

128 channels

Transmitter Power Output Levels

Hi: 4 W; low: 1 W

Battery Options

AA alkaline batteries
NiCad (7.2 V, 600 mAh)
NiCad (7.2 V, 1100 mAh)

Battery Recharging Options

Six unit charger adapter, regular rate single unit desk charger, 220 V regular rate single unit desk charger, rapid rate single unit desk charger, 220 V rapid rate single unit desk charger, rapid rate dc vehicular charger, and rapid rate dc vehicular charger

Physical Parameters

Size

2.3 in x 5.3 in x 1.3 in

Weight

4 oz with battery and antenna

WORKING DRAFT

Power Requirements	7.5 V dc
External Power	No
<u>Available Accessories</u>	
Speaker-Microphones	Microphone and speakers, heavy duty and light duty
Carrying Cases	Heavy duty carrying case with bungi-cord, cordura nylon carrying case, water-resistant bag, and rubber protective case
Battery Eliminators	Not specified
Vehicle Adapters	No
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Monocoque aluminum die-cast chassis-heat sink surrounded by polycarbonate case. Gasket seals and polyvinyl speaker cone prevent moisture penetration for wet weather use.
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$505
Battery Cycle Life	At least 4 h with 5/5/90 cycle
Rapid Charge Battery Cycle Life	Rapid rate single unit desk charger, rapid rate single unit battery charger with preconditioning discharge features, and rapid rate dc vehicular charger adapter
Maintenance Cost	Not specified
Interface Capability	Not specified
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	Microphone and speakers, service related accessories, antennas, batteries and chargers, carrying accessories, and digital radio camera
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	No

WORKING DRAFT

General

Name

***Kenwood Compact Synthesized FM Mobile Radio;
TK-760G***

ID# 59



Model Number(s)

TK-760G

Technology

Mobile, conventional; trunking capable with optional accessory board

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

No

Availability

Available

Frequency Range

136 MHz to 162 MHz
148 MHz to 174 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not specified

Current User(s)

Transportation

Source

Kenwood

Operational Parameters

Number of Channels

Maximum 128 channels

Transmitter Power Output Levels

25 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

5.5 in x 1.6 in x 5.7 in

Weight

2.1 lb

Power Requirements

13.6 \pm 15 % V dc

External Power

Yes

Available Accessories

Speaker-Microphones

Not applicable

WORKING DRAFT

Carrying Cases Not applicable

Battery Eliminators Not applicable

Vehicle Adapters Not applicable

Logistical Parameters

Programming Dealer/User (authorized technician)

Repairs Dealer

Decontamination Not specified

Durability/Ruggedness Heavy-duty construction

Environmental Conditions -22 °F to 140 °F

Unit Cost \$489

Battery Cycle Life Not applicable

Rapid Charge Battery Cycle Life Not applicable

Maintenance Cost Not specified

Interface Capability Mobile data ready data connection port allows voice and/or data communications using modems, MTD's and digital messaging equipment

Special Requirements

Operator Skills Required Average

Operator Training Requirements Average

Training Available Yes

Manuals Available Yes

Applicable Regulations FCC ID: Type 1 and 2
FCC Compliance: Type 1 and 2

Support Equipment Switching unit, ignition sense cable, accessories connection cable, external speakers, mobile GPS, receiver, base modem unit, line noise filter, mounting case, key lock adapter, microphones, and dc power supply

Warranty 2 yr

Mil Spec/Mil-Std Ratings Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe No

WORKING DRAFT

General

Name

***Kenwood Compact Synthesized FM Mobile Radio;
TK-860G***

ID# 60

Picture Not Available

Model Number(s)

TK-860G

Technology

Mobile, conventional; trunking capable with optional accessory board

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)
No

Secure Communication Capability

Availability

Available

Frequency Range

450 MHz to 490 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not specified

Current User(s)

Transportation

Source

Kenwood

Operational Parameters

Number of Channels

Maximum 128 channels

Transmitter Power Output Levels

25 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

5.5 in x 1.6 in x 5.7 in

Weight

2.1 lb

Power Requirements

13.6 ± 15 % V dc

External Power

Yes

Available Accessories

Speaker-Microphones

Not applicable

Carrying Cases

Not applicable

Battery Eliminators

Not applicable

Vehicle Adapters

Not applicable

WORKING DRAFT

Logistical Parameters

Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Heavy-duty construction
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$519
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Mobile data ready data connection port allows voice and/or data communications using modems, MTD's and digital messaging equipment

Special Requirements

Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	FCC ID: Type 1 and 2 FCC Compliance: Type 1 and 2
Support Equipment	GPS receiver, base modem unit, line noise filter, mounting case, key lock adapter, microphones, and dc power supply
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	No

WORKING DRAFT

General

Name

***Kenwood Compact Synthesized FM Mobile Radio;
TK-762G***

ID# 61



Model Number(s)

TK-762G

Technology

Mobile, conventional; trunking capable with optional accessory board

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

No

Availability

Available

Frequency Range

136 MHz to 162 MHz
148 MHz to 174 MHz

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Transportation

Source

Kenwood

Operational Parameters

Number of Channels

Maximum 8 channels

Transmitter Power Output Levels

25 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

5.5 in x 1.6 in x 5.7 in

Weight

2.1 lb

Power Requirements

13.6 V dc \pm 15 %

External Power

Not applicable

Available Accessories

Speaker-Microphones

Not applicable

WORKING DRAFT

Carrying Cases Not applicable

Battery Eliminators Not applicable

Vehicle Adapters Not applicable

Logistical Parameters

Programming Dealer/User (authorized technician)

Repairs Dealer

Decontamination Not specified

Durability/Ruggedness Meet or exceed government environmental standards covering shock, vibration, and dust for long-term durability in rough vehicle environments. Heavy-duty construction provides long-lasting field life.

Environmental Conditions -22 °F to 140 °F

Unit Cost \$429

Battery Cycle Life Not applicable

Rapid Charge Battery Cycle Life Not applicable

Maintenance Cost Not specified

Interface Capability Data ready connection port for MDT/modem application

Special Requirements

Operator Skills Required Average

Operator Training Requirements Average

Training Available Yes

Manuals Available Yes

Applicable Regulations FCC ID: Type 1 and 2
FCC Compliance: Type 1 and 2

Support Equipment PA/HA switching unit, ignition sense cable, accessories connection cable, connection cable, external speakers, mobile GPS modem unit, base modem unit, line noise filter, mounting case, key lock adapter, microphones, and dc power supply

Warranty 2 yr

Mil Spec/Mil-Std Ratings Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe No

WORKING DRAFT

General

Name

***Kenwood Compact Synthesized FM Mobile Radio;
TK-862G***

ID# 62



Model Number(s)

TK-862G

Technology

Mobile, conventional; trunking capable with optional accessory board

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

No

Availability

Available

Frequency Range

450 MHz to 490 MHz

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Transportation

Source

Kenwood

Operational Parameters

Number of Channels

Maximum 8 channels

Transmitter Power Output Levels

25 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

5.5 in x 1.6 in x 5.7 in

Weight

2.1 lb

Power Requirements

13.6 V dc \pm 15 %

External Power

Not applicable

Available Accessories

Speaker-Microphones

Not applicable

Carrying Cases

Not applicable

WORKING DRAFT

Battery Eliminators

Not applicable

Vehicle Adapters

Not applicable

Logistical Parameters

Programming

Dealer/User (authorized technician)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Meet or exceed government environmental standards covering shock, vibration, and dust for long-term durability in rough vehicle environments. Heavy-duty construction provides long-lasting field life.

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$459

Battery Cycle Life

Not applicable

Rapid Charge Battery Cycle Life

Not applicable

Maintenance Cost

Not specified

Interface Capability

Data ready connection port for MDT/modem applications

Special Requirements

Operator Skills Required

Average

Operator Training Requirements

Average

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

FCC ID: Type 1 and 2

FCC Compliance: Type 1 and 2

Support Equipment

PA/HA switching unit, ignition sense cable, accessories connection cable, connection cable, external speakers, mobile GPS modem unit, base modem unit, line noise filter, mounting case, key lock adapter, microphones, and dc power supply

Warranty

2 yr

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe

No

WORKING DRAFT

General

Name

***Kenwood Compact Synthesized FM Mobile Radio;
TK-760H***

ID# 63



Model Number(s)

TK-760H

Technology

Mobile, conventional

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris

800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

Voice encryption-ready using voice scrambler control
(on/off & code selection)

Availability

Available

Frequency Range

148 MHz to 174 MHz

136 MHz to 156 MHz

**Number of Personnel Supported by
System**

Unlimited

Geographic Coverage

Not specified

Current User(s)

Transportation

Source

Kenwood

Operational Parameters

Number of Channels

32 semiduplex channels

Transmitter Power Output Levels

25 W to 45 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

5.5 in x 1.6 in x 6.7 in

Weight

2.2 lb

Power Requirements

13.6 ± 15 % V dc

External Power

Yes

Available Accessories

Speaker-Microphones

Not applicable

Carrying Cases

Not applicable

WORKING DRAFT

Battery Eliminators

Not applicable

Vehicle Adapters

Not applicable

Logistical Parameters

Programming

Dealer/User (authorized technician)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Die-case chassis/heat sink and rugged design meets Mil-Std specifications for shock, vibration and dust

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$549

Battery Cycle Life

Not applicable

Rapid Charge Battery Cycle Life

Not applicable

Maintenance Cost

Not specified

Interface Capability

Mobile data-ready port for MDT/modem applications

Special Requirements

Operator Skills Required

Average

Operator Training Requirements

Average

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

FCC ID and Compliance: Type 1, 2, 3, and 4
IC Certification: Type 1 and 2
Applicable EIA/TIA Standard

Support Equipment

Hand microphone, programming disk, PA/HA unit, programming interface cable, external speaker, control station desktop microphone, line noise filter, dc power supply, ignition sense cable, accessories connection cable, and mounting case

Warranty

2 yr

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe

No

WORKING DRAFT

General

Name

***Kenwood Compact Synthesized FM Mobile Radio;
TK-860H***

ID# 64



Model Number(s)

TK-860H

Technology

Mobile, conventional

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris

800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

Voice encryption-ready using voice scrambler control
(on/off & code selection)

Availability

Available

Frequency Range

450 MHz to 476 MHz

470 MHz to 496 MHz

488 MHz to 512 MHz

406 MHz to 430 MHz

**Number of Personnel Supported by
System**

Unlimited

Geographic Coverage

Not specified

Current User(s)

Transportation

Source

Kenwood

Operational Parameters

Number of Channels

32 semiduplex channels

Transmitter Power Output Levels

25 W to 35 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

5.5 in x 1.6 in x 6.7 in

Weight

2.2 lb

Power Requirements

13.6 ± 15 % V dc

External Power

Yes

Available Accessories

WORKING DRAFT

Speaker-Microphones Not applicable

Carrying Cases Not applicable

Battery Eliminators Not applicable

Vehicle Adapters Not applicable

Logistical Parameters

Programming Dealer/User (authorized technician)

Repairs Dealer

Decontamination Not specified

Durability/Ruggedness Die-case chassis/heat sink and rugged design meets Mil-Std specifications for shock, vibration and dust

Environmental Conditions -22 °F to 140 °F

Unit Cost \$599

Battery Cycle Life Not applicable

Rapid Charge Battery Cycle Life Not applicable

Maintenance Cost Not specified

Interface Capability Mobile data-ready port for MDT/modem applications

Special Requirements

Operator Skills Required Average

Operator Training Requirements Average

Training Available Yes

Manuals Available Yes

Applicable Regulations Not specified

Support Equipment Hand microphone, programming disk, PA/HA unit, programming interface cable, external speaker, control station desktop microphone, line noise filter, dc power supply, ignition sense cable, accessories connection cable, and mounting case

Warranty 2 yr

Mil Spec/Mil-Std Ratings Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe No

WORKING DRAFT

General

Name

***Kenwood Compact Synthesized FM Mobile Radio;
TK-762H***

ID# 65



Model Number(s)

TK-762H

Technology

Mobile, conventional

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

Voice encryption-ready: easy access connection points provided

Availability

Available

Frequency Range

136 MHz to 156 MHz
148 MHz to 174 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not specified

Current User(s)

Transportation

Source

Kenwood

Operational Parameters

Number of Channels

2 semiduplex channels

Transmitter Power Output Levels

Standard 25 W
H-Model 45 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

5.5 in x 1.6 in x 6.7 in

Weight

2.2 lb

Power Requirements

13.6 V dc negative ground

External Power

Not applicable

Available Accessories

Speaker-Microphones

Not applicable

WORKING DRAFT

Carrying Cases Not applicable

Battery Eliminators Not applicable

Vehicle Adapters Not applicable

Logistical Parameters

Programming Dealer/User (authorized technician)

Repairs Dealer

Decontamination Not specified

Durability/Ruggedness Die-cast chassis/heat sink and rugged design

Environmental Conditions -22 °F to 140 °F

Unit Cost \$469

Battery Cycle Life Not applicable

Rapid Charge Battery Cycle Life Not applicable

Maintenance Cost Not specified

Interface Capability Data ready connection port for MDT/Modem applications

Special Requirements

Operator Skills Required Average

Operator Training Requirements Average

Training Available Yes

Manuals Available Yes

Applicable Regulations FCC ID and Compliance: Type 1, 2, 3, and 4
IC Certification: Type 1 and 2
Applicable EIA/TIA Standard

Support Equipment Hand microphone, programming disk, PA/HA unit, programming interface cable, external speaker, desktop microphone, line noise filter, dc power supply, ignition sense cable, accessories connection cable, and mounting case

Warranty 2 yr

Mil Spec/Mil-Std Ratings Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe No

WORKING DRAFT

General

Name

***Kenwood Compact Synthesized FM Mobile Radio;
TK-862H***

ID# 66



Model Number(s)

TK-862HG

Technology

Mobile, conventional

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

Voice encryption-ready: easy access connection points provided

Availability

Available

Frequency Range

450 MHz to 476 MHz
470 MHz to 496 MHz
488 MHz to 512 MHz
406 MHz to 430 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not specified

Current User(s)

Transportation

Source

Kenwood

Operational Parameters

Number of Channels

2 semiduplex channels

Transmitter Power Output Levels

Standard 25 W
H-Model 35 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

5.5 in x 1.6 in x 6.7 in

Weight

2.2 lb

Power Requirements

13.6 V dc negative ground

External Power

Not applicable

WORKING DRAFT

Available Accessories

Speaker-Microphones	Not applicable
Carrying Cases	Not applicable
Battery Eliminators	Not applicable
Vehicle Adapters	Not applicable

Logistical Parameters

Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Die-cast chassis/heat sink and rugged design
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$539
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Data ready connection port for MDT/Modem applications

Special Requirements

Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	FCC ID and Compliance: Type 1, 2, 3, and 4 IC Certification: Type 1 and 2 Applicable EIA/TIA Standard
Support Equipment	Hand microphone, programming disk, PA/HA unit, programming interface cable, external speaker, desktop microphone, line noise filter, dc power supply, ignition sense cable, accessories connection cable, and mounting case
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	No

WORKING DRAFT

General

Name

***Kenwood Public Safety Mobile FM Radios;
TK-690H***

ID# 67

Picture Not Available

Model Number(s)

TK-690H

Technology

Mobile, conventional

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

Encryption control: Secure voice capabilities are available with optional scrambler modules. An internal port permits the addition of these modules to provide voice scrambling from low-level inversion to high-level encryption.

Availability

Available

Frequency Range

29.7 MHz to 37.0 MHz
35 MHz to 43 MHz
40 MHz to 50 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not specified

Current User(s)

Public Safety Units

Source

Kenwood

Operational Parameters

Number of Channels

160 channels

Transmitter Power Output Levels

110 adjustable to 45 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

7 in x 2.4 in x 12.9 in

Weight

7.9 lb

Power Requirements

13.4 V dc \pm 15 %

External Power

Not applicable

WORKING DRAFT

Available Accessories

Speaker-Microphones	Not applicable
Carrying Cases	Not applicable
Battery Eliminators	Not applicable
Vehicle Adapters	Not applicable

Logistical Parameters

Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Aluminum die-cast chassis heat-sink provides strength and heat dissipation, spring-action gold-alloy elements for excellent contact, conductivity and anti-corrosive properties, making units resistant to water, dust, and other environmental conditions. Satisfies the driven rain standard.
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$1K
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Not specified

Special Requirements

Operator Skills Required	Experienced
Operator Training Requirements	Experienced
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	Remote control heads and kits, remote control cables, ignition sense cable, mounting brackets, key lock adapter, external speaker, microphone, keypad microphone, desktop microphone, line filter, and dc power supply
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	No

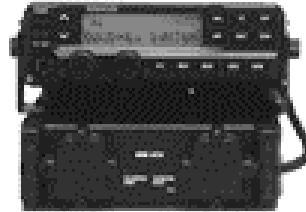
WORKING DRAFT

General

Name

Kenwood Public Safety Mobile FM Radios; TK-790

ID# 68



Model Number(s)

TK-790

Technology

Mobile, conventional

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

No

Availability

Available

Frequency Range

136 MHz to 156 MHz
148 MHz to 174 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not specified

Current User(s)

Public Safety Units

Source

Kenwood

Operational Parameters

Number of Channels

160 channels

Transmitter Power Output Levels

110 adjustable to 5 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

7 in x 2.4 in x 7.7 in

Weight

5.7 lb

Power Requirements

13.6 V dc \pm 15 %

External Power

Not applicable

Available Accessories

Speaker-Microphones

Not applicable

WORKING DRAFT

Carrying Cases Not applicable

Battery Eliminators Not applicable

Vehicle Adapters Not applicable

Logistical Parameters

Programming Dealer/User (authorized technician)

Repairs Dealer

Decontamination Not specified

Durability/Ruggedness Rugged Use

Environmental Conditions -22 °F to 140 °F

Unit Cost \$730

Battery Cycle Life Not applicable

Rapid Charge Battery Cycle Life Not applicable

Maintenance Cost Not specified

Interface Capability Not specified

Special Requirements

Operator Skills Required Experienced

Operator Training Requirements Experienced

Training Available Yes

Manuals Available Yes

Applicable Regulations Not specified

Support Equipment Available

Warranty 2 yr

Mil Spec/Mil-Std Ratings Meets Mil Spec 810C, Mil Spec 810D, and
Mil Spec 810E

Intrinsically Safe No

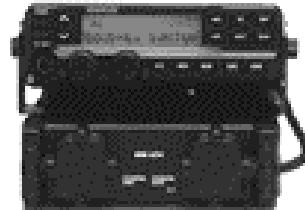
WORKING DRAFT

General

Name

***Kenwood Public Safety Mobile FM Radios;
TK-790H***

ID# 69



Model Number(s)

TK-790H

Technology

Mobile, conventional

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

Encryption control: Secure voice capabilities are available with optional scrambler modules. An internal port permits the addition of these modules to provide voice scrambling from low-level inversion to high-level encryption.

Availability

Available

Frequency Range

148 MHz to 174 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not specified

Current User(s)

Public Safety Units

Source

Kenwood

Operational Parameters

Number of Channels

160 channels

Transmitter Power Output Levels

110 adjustable to 45 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

7 in x 2.4 in x 12.9 in

Weight

7.9 lb

Power Requirements

13.4 V dc \pm 15 %

External Power

Not applicable

WORKING DRAFT

Available Accessories

Speaker-Microphones	Not applicable
Carrying Cases	Not applicable
Battery Eliminators	Not applicable
Vehicle Adapters	Not applicable

Logistical Parameters

Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Aluminum die-cast chassis heat-sink provides strength and heat dissipation, spring-action gold-alloy elements for excellent contact, conductivity and anti-corrosive properties, making units resistant to water, dust, and other environmental conditions. Satisfies the driven rain standard.
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$1.2K
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Not specified

Special Requirements

Operator Skills Required	Experienced
Operator Training Requirements	Experienced
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	Remote control heads and kits, remote control cables, ignition sense cable, mounting brackets, key lock adapter, external speaker, microphone, keypad microphone, desktop microphone, line filter, and dc power supply
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	No

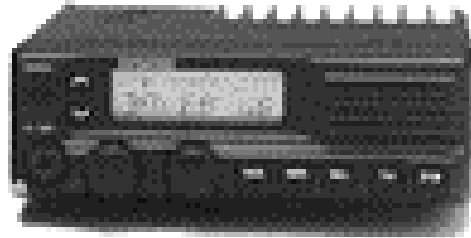
WORKING DRAFT

General

Name

***Kenwood Public Safety Mobile FM Radios;
TK-890***

ID# 70



Model Number(s)

TK-890

Technology

Mobile, conventional

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris

800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

No

Availability

Available

Frequency Range

403 MHz to 430 MHz

450 MHz to 490 MHz

480 MHz to 512 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not specified

Current User(s)

Public Safety Units

Source

Kenwood

Operational Parameters

Number of Channels

160 channels

Transmitter Power Output Levels

40 W adjustable to 5 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

7 in x 2.4 in x 7.7 in

Weight

5.7 lb

Power Requirements

13.6 ± 15 % V dc

External Power

Not applicable

Available Accessories

Speaker-Microphones

Not applicable

Carrying Cases

Not applicable

WORKING DRAFT

Battery Eliminators

Not applicable

Vehicle Adapters

Not applicable

Logistical Parameters

Programming

Dealer/User (authorized technician)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Rugged use

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$780

Battery Cycle Life

Not applicable

Rapid Charge Battery Cycle Life

Not applicable

Maintenance Cost

Not specified

Interface Capability

Not specified

Special Requirements

Operator Skills Required

Experienced

Operator Training Requirements

Experienced

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Not specified

Warranty

2 yr

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and
Mil Spec 810E

Intrinsically Safe

No

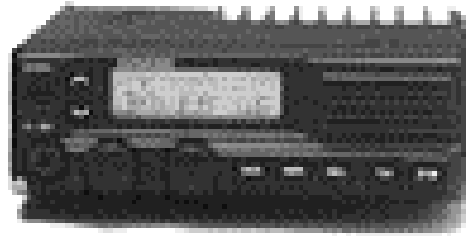
WORKING DRAFT

General

Name

***Kenwood Public Safety Mobile FM Radios;
TK-890H***

ID# 71



Model Number(s)

TK-890H

Technology

Mobile, conventional

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

Encryption control: Secure voice capabilities are available with optional scrambler modules. An internal port permits the addition of these modules to provide voice scrambling from low-level inversion to high-level encryption.

Availability

Available

Frequency Range

450 MHz to 490 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not specified

Current User(s)

Public Safety Units

Source

Kenwood

Operational Parameters

Number of Channels

160 channels

Transmitter Power Output Levels

40 W to 100 W (depending on the version)

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

7 in x 2.4 in x 12.9 in

Weight

7.9 lb

Power Requirements

13.4 ± 15 % V dc

External Power

Not applicable

WORKING DRAFT

Available Accessories

Speaker-Microphones	Not applicable
Carrying Cases	Not applicable
Battery Eliminators	Not applicable
Vehicle Adapters	Not applicable

Logistical Parameters

Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Aluminum die-cast chassis heat-sink provides strength and heat dissipation, spring-action gold-alloy elements for excellent contact, conductivity and anti-corrosive properties, making units resistant to water, dust, and other environmental conditions. Satisfies the driven rain standard.
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$1.2K
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Not specified

Special Requirements

Operator Skills Required	Experienced
Operator Training Requirements	Experienced
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	Remote control heads and kits, remote control cables, ignition sense cable, mounting brackets, key lock adapter, external speaker, microphone, keypad microphone, desktop microphone, line filter, and dc power supply
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	No

WORKING DRAFT

General

Name

ID# 72

Kenwood VHF/UHF Mobile Radio; TK-780



Model Number(s)

TK-780

Technology

Mobile, conventional and trunked

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

Encryption control: An internal port permits addition of optional modules to provide voice scrambling from low-level inversion to high-level encryption types. The radio programming also provides both automatic and manual control for clear and coded modes

Availability

Available

Frequency Range

136 MHz to 162 MHz

146 MHz to 174 MHz

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

Systems (trunked mode): maximum 32 channels
Groups (trunked mode): maximum 250 channels
Trunked/conventional: maximum 600/maximum 250 channels

Transmitter Power Output Levels

25 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

5.5 in x 1.6 in x 5.7 in

Weight

2.1 lb

Power Requirements

13.6 V dc \pm 15 %

WORKING DRAFT

External Power	Not applicable
<u>Available Accessories</u>	
Speaker-Microphones	Not applicable
Carrying Cases	Not applicable
Battery Eliminators	Not applicable
Vehicle Adapters	Not applicable
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Lightweight die-cast chassis provides exceptional strength while providing natural transmit heat dissipation. Interlocking metal covers and seals lockout moisture and dust.
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$580
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Not specified
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	FCC ID: Type 1, 2, and 3 FCC Compliance: Type 1, 2, and 3 IC Certification: Type 1, 2, and 3
Support Equipment	Microphones (desktop, mobile, mobile with keypad), ignition sense cable, accessories connector cable, external speakers, mounting case, key lock adapter, dc power supply, line noise filter, and PA/HA unit
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	No

WORKING DRAFT

General

Name

ID# 73

Kenwood VHF/UHF Mobile Radio; TK-880



Model Number(s)

TK-880

Technology

Mobile, conventional and trunked

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

Encryption control: An internal port permits addition of optional modules to provide voice scrambling from low-level inversion to high-level encryption types. The radio programming also provides both automatic and manual control for clear and coded modes.

Availability

Available

Frequency Range

450 MHz to 490 MHz
485 MHz to 512 MHz
400 MHz to 430 MHz

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

Systems (trunked mode): maximum 32 channels
Groups (trunked mode): maximum 250 channels
Trunked/conventional: maximum 600/maximum 250 channels

Transmitter Power Output Levels

25 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

5.5 in x 1.6 in x 5.7 in

Weight

2.1 lb

WORKING DRAFT

Power Requirements	13.6 V dc \pm 15 %
External Power	Not applicable
<u>Available Accessories</u>	
Speaker-Microphones	Not applicable
Carrying Cases	Not applicable
Battery Eliminators	Not applicable
Vehicle Adapters	Not applicable
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Lightweight die-cast chassis provides exceptional strength while providing natural transmit heat dissipation. Interlocking metal covers and seals lockout moisture and dust.
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$600
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Not specified
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	FCC ID: Type 1, 2, and 3 FCC Compliance: Type 1, 2, and 3 IC Certification: Type 1, 2, and 3
Support Equipment	Microphones (desktop, mobile, mobile with keypad), ignition sense cable, accessories connector cable, external speakers, mounting case, key lock adapter, dc power supply, line noise filter, and PA/HA unit
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	No

WORKING DRAFT

General

Name

Kenwood Transceiver, Portable; TK-2100

ID# 74



Model Number(s)

TK-2100, ProTalk*

Technology

Portable, conventional

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

No

Availability

Available

Frequency Range

150 MHz to 160 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

5 mi line of sight

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

1 or 2 channels

Transmitter Power Output Levels

2 W

Battery Options

AA alkaline, NiCad battery, extended NiCad battery

Battery Recharging Options

Six unit charger adapter, single unit desk charger (regular and rapid rate), 220 V single unit desk charger (regular and rapid rate), dc vehicular charger adapter (regular and rapid rate), and rapid rate single unit charger with pre-conditioning discharge features

Physical Parameters

Size

2.3 in x 4.9 in x 1.3 in (with battery)

Weight

11.2 oz (with battery)

Power Requirements

7.2 V dc

External Power

No

WORKING DRAFT

Available Accessories

Speaker-Microphones

Clip microphone with earphone, headset, earphone kit, earset with flex boom microphone and swivel earloop, single muff headset with boom microphone, palm microphone with earphone, and speaker microphone

Carrying Cases

Heavy duty carrying case, nylon case, horizontal-wear nylon case, water resistant bag, and rubber protective case

Battery Eliminators

No

Vehicle Adapters

No

Logistical Parameters

Programming

Dealer/User (authorized technician)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Die-cast chassis, polycarbonate case, weather-sealed construction. Meets military environmental standards for light rain, humidity, dust, vibration, and shock.

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$259

Battery Cycle Life

8 h with 5/5/90 cycle

Rapid Charge Battery Cycle Life

Single unit desk charger (rapid rate), 220 V single unit desk charger (rapid rate), dc vehicular charger adapter (rapid rate), and rapid rate single unit charger with pre-conditioning discharge features

Maintenance Cost

Not specified

Interface Capability

Not specified

Special Requirements

Operator Skills Required

Minimal

Operator Training Requirements

Minimal

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Antennas, batteries and chargers, carrying accessories, microphone and speakers, and service related accessories

Warranty

2 yr

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe

No

WORKING DRAFT

General

Name

Kenwood Transceiver, Portable; TK-3100

ID# 75

Picture Not Available

Model Number(s)

TK-3100, ProTalk™

Technology

Portable, conventional

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris

800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

No

Availability

Available

Frequency Range

460 MHz to 470 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

5 mi line of sight

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

1 or 2 channels

Transmitter Power Output Levels

2 W

Battery Options

AA alkaline, NiCad battery, extended NiCad battery

Battery Recharging Options

Six unit charger adapter, single unit desk charger (regular and rapid rate), 220 V single unit desk charger (regular and rapid rate), dc vehicular charger adapter (regular and rapid rate), and rapid rate single unit charger with pre-conditioning discharge features

Physical Parameters

Size

2.3 in x 4.9 in x 1.3 in (with battery)

Weight

11.2 oz (with battery)

Power Requirements

Not specified

External Power

No

WORKING DRAFT

Available Accessories

Speaker-Microphones

Clip microphone with earphone, headset, earphone kit, earset with flex boom microphone and swivel earloop, single muff headset with boom microphone, palm microphone with earphone, and speaker microphone

Carrying Cases

Heavy duty carrying case, nylon case, horizontal-wear nylon case, water resistant bag, and rubber protective case

Battery Eliminators

No

Vehicle Adapters

No

Logistical Parameters

Programming

Dealer/User (authorized technician)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Die-cast chassis, polycarbonate case, weather-sealed construction. Meets military environmental standards for light rain, humidity, dust, vibration, shock.

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$275

Battery Cycle Life

8 h with 5/5/90 cycle

Rapid Charge Battery Cycle Life

Single unit desk charger (rapid rate), 220 V single unit desk charger (rapid rate), dc vehicular charger adapter (rapid rate), and rapid rate single unit charger with pre-conditioning discharge features

Maintenance Cost

Not specified

Interface Capability

Not specified

Special Requirements

Operator Skills Required

Minimal

Operator Training Requirements

Minimal

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Antennas, batteries and chargers, carrying accessories, microphone and speakers, and service related accessories

Warranty

2 yr

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe

No

WORKING DRAFT

General

Name

Kenwood Transceiver, Portable; TK-3101

ID# 76

Picture Not Available

Model Number(s)

TK-3101, FreeTalk*

Technology

Portable, conventional

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris

800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

No

Availability

Available

Frequency Range

460 MHz to 470 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

5 mi line of sight

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

15 channels

Transmitter Power Output Levels

2 W

Battery Options

AA alkaline, NiCad battery, extended NiCad battery

Battery Recharging Options

Six unit charger adapter, single unit desk charger (regular and rapid rate), 220 V single unit desk charger (regular and rapid rate), dc vehicular charger adapter (regular and rapid rate), and rapid rate single unit charger with pre-conditioning discharge features

Physical Parameters

Size

2.3 in x 4.9 in x 1.3 in (with battery)

Weight

11.2 oz (with battery)

Power Requirements

Not specified

External Power

No

WORKING DRAFT

Available Accessories

Speaker-Microphones

Clip microphone with earphone, headset, earphone kit, earset with flex boom microphone and swivel earloop, single muff headset with boom microphone, palm microphone with earphone, and speaker microphone

Carrying Cases

Heavy duty carrying case, nylon case, horizontal-wear nylon case, water resistant bag, and rubber protective case

Battery Eliminators

No

Vehicle Adapters

No

Logistical Parameters

Programming

Dealer/User (authorized technician)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Die-cast chassis, polycarbonate case, weather-sealed construction. Meets military environmental standards for light rain, humidity, dust, vibration, and shock.

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$292

Battery Cycle Life

8 h with 5/5/90 cycle

Rapid Charge Battery Cycle Life

Single unit desk charger (rapid rate), 220 V single unit desk charger (rapid rate), dc vehicular charger adapter (rapid rate), and rapid rate single unit charger with pre-conditioning discharge features

Maintenance Cost

Not specified

Interface Capability

Not specified

Special Requirements

Operator Skills Required

Minimal

Operator Training Requirements

Minimal

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Antennas, batteries and chargers, carrying accessories, microphone and speakers, and service related accessories

Warranty

2 yr

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe

No

WORKING DRAFT

General

Name

ID# 77

Kenwood VHF Fm Transceivers; TK-290



Model Number(s)

TK-290

Technology

Portable, conventional

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

Yes

Availability

Available

Frequency Range

136 MHz to 174 MHz

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

160 channels

Transmitter Power Output Levels

5 W

Battery Options

AA alkaline batteries, NiCad battery, and NiCad intrinsically safe battery

Battery Recharging Options

Six unit charger adapter (regular and rapid rate), regular rate single unit desk charger, 220 V regular and rapid rate single unit desk charger, rapid rate single unit with pre-conditioning discharge features, and dc vehicular charger adapter (rapid and regular rate)

Physical Parameters

Size

2.3 in x 6.1 in x 1.6 in

Weight

20 oz with antenna and belt hook

Power Requirements

7.5 V dc

External Power

No

WORKING DRAFT

Available Accessories

Speaker-Microphones

Earphone kit, palm microphone with earphone, mini lapel microphone with earphone, and heavy duty noise reduction behind the headset with noise canceling boom microphone

Carrying Cases

Heavy duty leather carrying case, cordura nylon carrying case, and rubber protective case

Battery Eliminators

Not specified

Vehicle Adapters

No

Logistical Parameters

Programming

Dealer/User (authorized technician)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Die-cast chassis, weather-sealed universal connector and battery contacts use spring action gold-alloy elements for excellent contact, conductivity and anti-corrosive properties

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$800

Battery Cycle Life

10 h with 5/5/90 cycle

Rapid Charge Battery Cycle Life

Six unit rapid rate charger, rapid rate single unit desk charger, 220 V rapid rate single unit desk charger, rapid rate single unit battery charger with preconditioning discharge features, and rapid rate dc vehicular charger adapter

Maintenance Cost

Not specified

Interface Capability

Not specified

Special Requirements

Operator Skills Required

Experienced

Operator Training Requirements

Experienced

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Batteries and chargers, carrying accessories, digital radio camera, microphones and speakers, and service related accessories

Warranty

2 yr

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe

Yes

WORKING DRAFT

General

Name

ID# 78

Kenwood UHF Fm Transceivers; TK-390



Model Number(s)

TK-390

Technology

Portable, conventional

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

Yes

Availability

Available

Frequency Range

450 MHz to 490 MHz, 470 MHz to 512 MHz,
403 MHz to 430 MHz

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

160 channels

Transmitter Power Output Levels

4 W

Battery Options

AA alkaline batteries, NiCad battery, and NiCad intrinsically safe battery

Battery Recharging Options

Six unit charger adapter (regular and rapid rate), regular rate single unit desk charger, 220 V regular and rapid rate single unit desk charger, rapid rate single unit with pre-conditioning discharge features, and dc vehicular charger adapter (rapid and regular rate)

Physical Parameters

Size

2.3 in x 6.1 in x 1.6 in

Weight

20 oz with antenna and belt hook

Power Requirements

7.5 V dc

External Power

No

WORKING DRAFT

Available Accessories

Speaker-Microphones

Earphone kit, palm microphone with earphone, mini lapel microphone with earphone, and heavy duty noise reduction behind the headset with noise canceling boom microphone

Carrying Cases

Heavy duty leather carrying case, cordura nylon carrying case, and rubber protective case

Battery Eliminators

Not specified

Vehicle Adapters

Not specified

Logistical Parameters

Programming

Dealer/User (authorized technician)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Die-cast chassis, weather-sealed universal connector and battery contacts use spring action gold-alloy elements for excellent contact, conductivity and anti-corrosive properties

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$850

Battery Cycle Life

10 h with 5/5/90 cycle

Rapid Charge Battery Cycle Life

Six unit rapid rate charger, rapid rate single unit desk charger, 220 V rapid rate single unit desk charger, rapid rate single unit battery charger with preconditioning discharge features, and rapid rate dc vehicular charger adapter

Maintenance Cost

Not specified

Interface Capability

Not specified

Special Requirements

Operator Skills Required

Experienced

Operator Training Requirements

Experienced

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Batteries and chargers, carrying accessories, digital radio camera, microphones and speakers, and service related accessories

Warranty

2 yr

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe

Yes

WORKING DRAFT

General

Name

Kenwood Trunked Mobile Radio; TK-980 NSPAC

ID# 79



Model Number(s)

TK-980 NSPAC

Technology

Mobile, trunked

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

Encryption/scrambler control

Availability

Available

Frequency Range

800 MHz

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

Trunked: 32 systems
Conventional: 250 channels

Transmitter Power Output Levels

15 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

5.5 in x 1.5 in x 5.7 in

Weight

2.1 lb

Power Requirements

13.6 V dc

External Power

Not applicable

Available Accessories

Speaker-Microphones

Not applicable

Carrying Cases

Not applicable

Battery Eliminators

Not applicable

WORKING DRAFT

Vehicle Adapters	Not applicable
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Rugged use
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$634
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Not specified
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	Control head cables, line filter, key lock adapter, control station mounting case for power supply, mobile mounting bracket, control conversion kit, microphones, keypad, dc power supply, 220 V dc power supply, mobile programming interface cable, and programming software disk
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	No

WORKING DRAFT

General

Name

Kenwood Synthesized FM Portable Radio/Trunked System; TK-280

ID# 80



Model Number(s)

TK-280

Technology

Portable, conventional and trunked

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

Encryption control provides secure voice communications. An internal port permits addition of optional modules to provide voice scrambling from low-level inversion to high-level encryption types.

Availability

Available

Frequency Range

146 MHz to 174 MHz
136 MHz to 162 MHz

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

250 channels (conventional mode)
600 channels (trunked mode)

Transmitter Power Output Levels

Hi: 5 W; low: 1 W

Battery Options

1100 mAh/8 h, 7.2 V dc NiCad battery, 1500 mAh/10 h, 7.2 V dc NiCad battery, intrinsically safe NiCad battery, and AA alkaline batteries

Battery Recharging Options

Six unit charger adapter, regular rate single unit desk charger, 220 V regular and rapid single unit desk charger, rapid and regular dc vehicular charger adapter, and rapid rate single unit with preconditioning discharge features

Physical Parameters

Size

2.3 in x 5.3 in x 1.3 in

WORKING DRAFT

Weight	16 oz
Power Requirements	7.5 V dc
External Power	No
<u>Available Accessories</u>	
Speaker-Microphones	Earphone kit, Mil Spec noise canceling speaker microphone, 2-wire palm microphone with earphone, lapel microphone with earphone, and single muff headset with boom microphone
Carrying Cases	Heavy duty leather carrying case, cordura nylon carrying case, water resistant bag, and rubber protective case
Battery Eliminators	Not specified
Vehicle Adapters	No
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Integrated elements such as the keypad membrane, gasket seals and the polypropylene speaker help prevent moisture penetration. Water resistant in wet weather.
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$520
Battery Cycle Life	At least 8 h with 5/5/90 cycle
Rapid Charge Battery Cycle Life	Six unit charger adapter rapid rate, rapid rate single unit desk charger, 220 V rapid rate single unit desk charger, rapid rate single unit with preconditioning discharge features, and rapid rate dc vehicular charger adapter
Maintenance Cost	Not specified
Interface Capability	Not specified
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	Microphone and speakers, service related accessories, antennas, batteries and chargers, carrying accessories, and digital radio camera
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	Yes

WORKING DRAFT

General

Name

Kenwood Synthesized FM Portable Radio/Trunked System; TK-380

ID# 81



Model Number(s)

TK-380

Technology

Portable, conventional and trunked

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

Secure Communication Capability

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)
Encryption control provides secure voice communications. An internal port permits addition of optional modules to provide voice scrambling from low-level inversion to high-level encryption types.

Availability

Available

Frequency Range

403 MHz to 430 MHz
450 MHz to 490 MHz
470 MHz to 512 MHz

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

250 channels (conventional mode)
600 channels (trunked mode)

Transmitter Power Output Levels

Hi: 4 W; low: 1 W

Battery Options

1100 mAh/8 h, 7.2 V dc NiCad battery, 1500 mAh/10 h, 7.2 V dc NiCad battery, intrinsically safe NiCad battery, and AA alkaline batteries

Battery Recharging Options

Six unit charger adapter, regular rate single unit desk charger, 220 V regular and rapid single unit desk charger, rapid and regular dc vehicular charger adapter, and rapid rate single unit with preconditioning discharge features

Physical Parameters

Size

2.3 in x 5.3 in x 1.3 in

WORKING DRAFT

Weight	16 oz
Power Requirements	7.5 V dc
External Power	No
<u>Available Accessories</u>	
Speaker-Microphones	Earphone kit, Mil Spec noise canceling speaker microphone, 2-wire palm microphone with earphone, lapel microphone with earphone, and single muff headset with boom microphone
Carrying Cases	Heavy duty leather carrying case, cordura nylon carrying case, water resistant bag, and rubber protective case
Battery Eliminators	Not specified
Vehicle Adapters	No
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Integrated elements such as the keypad membrane, gasket seals and the polypropylene speaker help prevent moisture penetration. Water resistant in wet weather.
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$570
Battery Cycle Life	At least 8 h with 5/5/90 cycle
Rapid Charge Battery Cycle Life	Six unit charger adapter rapid rate, rapid rate single unit desk charger, 220 V rapid rate single unit desk charger, rapid rate single unit with preconditioning discharge features, and rapid rate dc vehicular charger adapter
Maintenance Cost	Not specified
Interface Capability	Not specified
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	Microphone and speakers, service related accessories, antennas, batteries and chargers, carrying accessories, and digital radio camera
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	Yes

WORKING DRAFT

General

Name

Kenwood 800/900 MHz FM Transceiver; TK-480 and TK-480 NPSPAC

ID# 82



Model Number(s)

TK-480 and TK-480 NPSPAC

Technology

Portable, trunked system

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

Encryption control for security. An internal port permits addition of optional modules to provide voice scrambling from low-level inversion to high-level encryption types.

Availability

Available

Frequency Range

851 MHz to 870 MHz
806 MHz to 825 MHz

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

Systems: 32
Groups: 250 per system
Channels: 486 per system

Transmitter Power Output Levels

1 W to 2.5 W

Battery Options

1100 mAh/8 h NiCad battery; 1500 mAh/10 h NiCad battery, and intrinsically safe NiCad battery

Battery Recharging Options

Six unit charger adapter (regular and rapid rate), regular rate single unit desk charger, 220 V regular and rapid rate single unit desk charger, rapid rate single unit with pre-conditioning discharge features, and dc vehicular charger adapter (rapid and regular rate)

Physical Parameters

Size

2.3 in x 5.3 in x 1.3 in

WORKING DRAFT

Weight	16 oz
Power Requirements	7.5 V dc
External Power	No
<u>Available Accessories</u>	
Speaker-Microphones	Earphone kit, Mil Spec noise canceling speaker microphone, palm microphone with earphone, mini lapel microphone with earphone, and heavy duty noise reduction behind the headset with noise canceling boom microphone
Carrying Cases	Heavy duty leather carrying case, cordura nylon carrying case, water resistant bag, and rubber protective case
Battery Eliminators	Not specified
Vehicle Adapters	Not specified
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Die-cast chassis, weather-sealed universal connector and battery contacts use spring action gold-alloy elements for excellent contact, conductivity and anti-corrosive properties. Polyvinyl keypad membrane and speaker cone prevent moisture penetration.
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$640
Battery Cycle Life	At least 8 h with 5/5/90 cycle
Rapid Charge Battery Cycle Life	Six unit rapid rate charger, rapid rate single unit desk charger, 220 V rapid rate single unit desk charger, rapid rate single unit battery charger with preconditioning discharge features, and rapid rate dc vehicular charger adapter
Maintenance Cost	Not specified
Interface Capability	Digital ANI Modules by Cimarron Technologies
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	Batteries and chargers, carrying accessories, digital radio camera, microphones and speakers, and service related accessories
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	Yes

WORKING DRAFT

General

Name

Kenwood 800/900 MHz FM Transceiver; TK-481

ID# 83



Model Number(s)

TK-481

Technology

Portable, trunked system

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

Secure Communication Capability

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)
Encryption control for security. An internal port permits addition of optional modules to provide voice scrambling from low-level inversion to high-level encryption types.

Availability

Available

Frequency Range

896 MHz to 902 MHz TX
935 MHz to 941 MHz RX

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

Systems: 32
Groups: 250 per system
Channels: 486 per system
1 W to 2.5 W

Transmitter Power Output Levels

Battery Options

1100 mAh/8 h NiCad battery; 1500 mAh/10 h NiCad battery, and intrinsically safe NiCad battery

Battery Recharging Options

Six unit charger adapter (regular and rapid rate), regular rate single unit desk charger, 220 V regular and rapid rate single unit desk charger, rapid rate single unit with pre-conditioning discharge features, and dc vehicular charger adapter (rapid and regular rate)

Physical Parameters

Size

2.3 in x 5.3 in x 1.3 in

WORKING DRAFT

Weight	16 oz
Power Requirements	7.5 V dc
External Power	No
<u>Available Accessories</u>	
Speaker-Microphones	Earphone kit, Mil Spec noise canceling speaker microphone, palm microphone with earphone, mini lapel microphone with earphone, and heavy duty noise reduction behind the headset with noise canceling boom microphone
Carrying Cases	Heavy duty leather carrying case, cordura nylon carrying case, water resistant bag, and rubber protective case
Battery Eliminators	Not specified
Vehicle Adapters	No
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Die-cast chassis, weather-sealed universal connector and battery contacts use spring action gold-alloy elements for excellent contact, conductivity and anti-corrosive properties. Polyvinyl keypad membrane and speaker cone prevent moisture penetration.
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$640
Battery Cycle Life	At least 8 h with 5/5/90 cycle
Rapid Charge Battery Cycle Life	Six unit rapid rate charger, rapid rate single unit desk charger, 220 V rapid rate single unit desk charger, rapid rate single unit battery charger with preconditioning discharge features, and rapid rate dc vehicular charger adapter
Maintenance Cost	Not specified
Interface Capability	Digital ANI Modules by Cimarron Technologies
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	Batteries and chargers, carrying accessories, digital radio camera, microphones and speakers, and service related accessories
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	Optional

WORKING DRAFT

General

Name

***Kenwood Trunked Portable Radios; TK-930HDK2
NSPAC***

ID# 84

Picture Not Available

Model Number(s)

TK-930HDK2 NSPAC

Technology

Portable, trunked system

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

Yes

Availability

Available

Frequency Range

800 MHz

**Number of Personnel Supported by
System**

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

LTR: 10 systems/200 trunked, 10 groups

Transmitter Power Output Levels

15 W to 35 W

Battery Options

Not applicable

Battery Recharging Options

None

Physical Parameters

Size

5.9 in x 2 in x 8.7 in

Weight

3.5 lb

Power Requirements

13.6 V dc

External Power

Yes

Available Accessories

Speaker-Microphones

Yes

Carrying Cases

Not applicable

Battery Eliminators

No

Vehicle Adapters

Yes

WORKING DRAFT

Logistical Parameters

Programming

Dealer/User (authorized technician) programmable -
PC friendly

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Standard use

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$915

Battery Cycle Life

Not applicable

Rapid Charge Battery Cycle Life

Not applicable

Maintenance Cost

Not specified

Interface Capability

Not specified

Special Requirements

Operator Skills Required

Average

Operator Training Requirements

Average

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Available

Warranty

2 yr

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and
Mil Spec 810E

Intrinsically Safe

No

WORKING DRAFT

General

Name

ID# 85

Kenwood Trunked Compact Mobile Radio; TK-980



Model Number(s)

TK-980

Technology

Mobile, conventional and trunked

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

Encryption control: An internal port permits addition of optional modules for user-defined voice scrambling from low-level inversion to high-level encryption types. The radio programming also provides both automatic and manual control for clear and coded modes.

Availability

Available

Frequency Range

Type 1 851 MHz to 870 MHz RX
Type 2 806 MHz to 825 MHz TX
Type 3 851-870 MHz talk around

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

Systems: maximum 32 channels
Groups: maximum 250 channels
Channels: maximum 600

Transmitter Power Output Levels

15 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

5.5 in x 1.6 in x 5.7 in

Weight

2.1 lb

Power Requirements

13.6 V dc \pm 15 %

WORKING DRAFT

External Power	Not applicable
<u>Available Accessories</u>	
Speaker-Microphones	Not applicable
Carrying Cases	Not applicable
Battery Eliminators	Not applicable
Vehicle Adapters	Not applicable
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Aluminum die-cast chassis gives strength to the unit and provides for natural heat dissipation. Interlocking metal covers and seals lockout moist and dust.
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$550
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Not specified
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	FCC, FCC Compliance, IC Certification
Support Equipment	Microphones (desktop, mobile, mobile with keypad), ignition sense cable, accessory connector cable, dc power supply, external speakers, line noise filter, mounting case, key lock adapter, and PA/HA unit
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	No

WORKING DRAFT

General

Name

ID# 86

Kenwood Trunked Compact Mobile Radio; TK-81



Model Number(s)

TK-981

Technology

Mobile, conventional and trunked

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

Encryption control: An internal port permits addition of optional modules for user-defined voice scrambling from low-level inversion to high-level encryption types. The radio programming also provides both automatic and manual control for clear and coded modes.

Availability

Available

Frequency Range

Type 1 935 MHz to 941 MHz RX
Type 2 896 MHz to 902 MHz TX
Type 3 935 MHz to 941 MHz talk around

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

Systems: maximum 32 channels
Groups: maximum 250 channels
Channels: maximum 600

Transmitter Power Output Levels

15 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

5.5 in x 1.6 in x 5.7 in

Weight

2.1 lb

Power Requirements

13.6 V dc \pm 15 %

WORKING DRAFT

External Power	Not applicable
<u>Available Accessories</u>	
Speaker-Microphones	Not applicable
Carrying Cases	Not applicable
Battery Eliminators	Not applicable
Vehicle Adapters	Not applicable
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Aluminum die-cast chassis gives strength to the unit and provides for natural heat dissipation. Interlocking metal covers and seals lockout moist and dust.
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$550
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Not specified
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	FCC, FCC Compliance, IC Certification
Support Equipment	Microphones (desktop, mobile, mobile with keypad), ignition sense cable, accessory connector cable, dc power supply, external speakers, line noise filter, mounting case, key lock adapter, and PA/HA unit
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	No

WORKING DRAFT

General

Name

ID# 87

Kenwood VHF Base Transceiver; TKB-720



Model Number(s)

TKB-720

Technology

Base radio, conventional

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

No

Availability

Available

Frequency Range

150 MHz to 174 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

9 to 16 channels

Transmitter Power Output Levels

20 W to 50 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

4.7 in x 13 in x 15.1 in

Weight

27.6 lb

Power Requirements

120 V ac 50 Hz/60 Hz

External Power

Yes

Available Accessories

Speaker-Microphones

Yes

Carrying Cases

Not applicable

Battery Eliminators

Not applicable

WORKING DRAFT

Vehicle Adapters

Not applicable

Logistical Parameters

Programming

Dealer/User (authorized technician)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Standard use

Environmental Conditions

-22 °F to 140 °F

Unit Cost

Not specified

Battery Cycle Life

Not applicable

Rapid Charge Battery Cycle Life

Not applicable

Maintenance Cost

Not specified

Interface Capability

Not specified

Special Requirements

Operator Skills Required

Average

Operator Training Requirements

Average

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Available

Warranty

2 yr

Mil Spec/Mil-Std Ratings

No

Intrinsically Safe

No

WORKING DRAFT

General

Name

Kenwood VHF/UHF Repeater; TKR-720

ID# 88

Picture Not Available

Model Number(s)

TKR-720

Technology

Repeater, conventional

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris

800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

No

Availability

Available

Frequency Range

150 MHz to 174 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not applicable

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

1 channel

Transmitter Power Output Levels

15 W to 50 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

4.8 in x 13 in x 15 in

Weight

28.7 lb

Power Requirements

120 V ac 50 Hz/60 Hz

External Power

Yes

Available Accessories

Speaker-Microphones

Yes

Carrying Cases

Not applicable

Battery Eliminators

Not applicable

Vehicle Adapters

Not applicable

WORKING DRAFT

Logistical Parameters

Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Standard use
Environmental Conditions	-22 °F to 140 °F
Unit Cost	Not specified
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Not specified

Special Requirements

Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	Available
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Yes
Intrinsically Safe	No

WORKING DRAFT

General

Name

Kenwood UHF Repeater; TKR-820

ID# 89

Picture Not Available

Model Number(s)

TKR-820

Technology

Repeater, conventional desktop repeater

Manufacturer

Kenwood Communications Corporation
P.O. Box 22745
East Dominguez St.
Long Beach, California 90801

POC: Barry Morris
800-752-0986, ext. 8280 (Tel)

Secure Communication Capability

No

Availability

Available

Frequency Range

406 MHz to 512 MHz

Number of Personnel Supported by System

Unlimited

Geographic Coverage

Not applicable

Current User(s)

Not specified

Source

Kenwood

Operational Parameters

Number of Channels

1 channel

Transmitter Power Output Levels

2 W to 20 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

48 in x 13 in x 15 in

Weight

28.7 lb

Power Requirements

120 V ac 50 Hz/60 Hz

External Power

Yes

Available Accessories

Speaker-Microphones

Yes

Carrying Cases

Not applicable

Battery Eliminators

Not applicable

Vehicle Adapters

Not applicable

WORKING DRAFT

Logistical Parameters

Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Not applicable
Environmental Conditions	-22 °F to 140 °F
Unit Cost	Not specified
Battery Cycle Life	Not applicable
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Not specified

Special Requirements

Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	Available
Warranty	2 yr
Mil Spec/Mil-Std Ratings	Yes
Intrinsically Safe	No

WORKING DRAFT

General

Name

ID# 90

Motorola Astro Transceiver, Portable; Saber 1



Model Number(s)

Technology

Manufacturer

Astro Saber 1

Portable, conventional and trunked

Motorola USA

1301 E. Algonquin Road

Schaumburg, Illinois 60196

800-247-2346 (Tel)

POC: Ron Zeberlein

410-712-6014 (Tel)

Secure Communication Capability

Availability

Frequency Range

Yes

Available

VHF: 136 MHz to 174

UHF: 403 MHz to 470, 450 MHz to 520 MHz

800: 806 MHz to 870 MHz

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Motorola

Operational Parameters

Number of Channels

16 channels to 32 channels

Transmitter Power Output Levels

1 W to 5 W

Battery Options

1 NiCad 1000 mAh; 1 NiCad 1100 mAh; 4 NiCad 1800 mAh; 1 NiMH 1650 mAh; and 1 Lithium Ion

Battery Recharging Options

2 desktop, single unit standard charge rate chargers; 3 desktop, single unit rapid charge rate chargers; 2 multi unit rapid rate chargers; 2 multi unit battery maintenance systems; 2 multi unit battery optimizing systems; and 4 conditioning chargers

Physical Parameters

Size

5.2 in x 2.9 in x 1.2 in (without battery)

Weight

13 oz (without battery)

Power Requirements

7.5 V dc

External Power

Yes, with optional vehicular adapter

WORKING DRAFT

Available Accessories

Speaker-Microphones

4 standard models available; 5 ear worn speaker microphones available

Carrying Cases

6 leather carrying cases; 4 nylon carrying cases; 1 belt clips; universal chest pack; breakaway chest pack; and universal radio pack (worn around waist)

Battery Eliminators

No

Vehicle Adapters

Yes

Logistical Parameters

Programming

Dealer/User (authorized technician)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Standard use

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$1.5K Manufacturer Suggested Retail Price (MSRP)
Contact dealer for discount pricing

Battery Cycle Life

Not specified

Rapid Charge Battery Cycle Life

Not applicable

Maintenance Cost

Not specified

Interface Capability

Digital capable

Special Requirements

Operator Skills Required

Average

Operator Training Requirements

Average

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Available

Warranty

1 yr

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and
Mil Spec 810E

Intrinsically Safe

Yes

WORKING DRAFT

General

Name

Motorola Astro Transceiver, Portable; Saber 2

ID# 91



Model Number(s)

Astro Saber 2

Technology

Portable, conventional and trunked

Manufacturer

Motorola USA
1301 E. Algonquin Road
Schaumburg, Illinois 60196
800-247-2346 (Tel)

Secure Communication Capability

Yes

Availability

Available

Frequency Range

VHF: 136 MHz to 174 MHz
UHF: 403 MHz to 470 MHz, 450 MHz to 520 MHz
800: 806 MHz to 870 MHz

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Motorola

Operational Parameters

Number of Channels

255 channels

Transmitter Power Output Levels

1 W to 5 W

Battery Options

1 NiCad 1000 mAh; 1 NiCad 1100 mAh; 4 NiCad 1800 mAh; 1 NiMH 1650 mAh; and 1 Lithium Ion

Battery Recharging Options

2 desktop, single unit standard charge rate chargers; 3 desktop, single unit rapid charge rate chargers; 2 multi unit rapid rate chargers; 2 multi unit battery maintenance systems; 2 multi unit battery optimizing systems; and 4 conditioning chargers

Physical Parameters

Size

5.2 in x 2.9 in x 1.2 in (without battery)

Weight

12.8 oz (without battery)

Power Requirements

7.5 V dc

External Power

Yes, with optional vehicular adapter

WORKING DRAFT

Available Accessories

Speaker-Microphones

4 standard models available; 5 ear worn speaker microphones available

Carrying Cases

6 leather carrying cases; 4 nylon carrying cases; 1 belt clips; universal chest pack; breakaway chest pack; and universal radio pack (worn around waist)

Battery Eliminators

No

Vehicle Adapters

Yes

Logistical Parameters

Programming

Dealer/User (authorized technician)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Standard use

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$1.8K MSRP

Contact dealer for discount pricing

Battery Cycle Life

Not specified

Rapid Charge Battery Cycle Life

Not applicable

Maintenance Cost

Not specified

Interface Capability

Digital capable

Special Requirements

Operator Skills Required

Average

Operator Training Requirements

Average

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Available

Warranty

1 yr

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe

Yes

WORKING DRAFT

General

Name

Motorola Astro Transceiver, Portable; Saber 3

ID# 92



Model Number(s)

Saber 3

Technology

Portable, conventional and trunked

Manufacturer

Motorola USA
1301 E. Algonquin Road
Schaumburg, Illinois 60196
800-247-2346 (Tel)

Secure Communication Capability

Yes

Availability

Available

Frequency Range

VHF: 136 MHz to 174 MHz
UHF: 403 MHz to 470 MHz, 450 MHz to 520 MHz
800: 806 MHz to 870 MHz

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Motorola

Operational Parameters

Number of Channels

255 channels

Transmitter Power Output Levels

1 W to 5 W

Battery Options

1 NiCad 1000 mAh; 1 NiCad 1100 mAh; 4 NiCad 1800 mAh; 1 NiMH 1650 mAh; and 1 Lithium Ion

Battery Recharging Options

2 desktop, single unit standard charge rate chargers; 3 desktop, single unit rapid charge rate chargers; 2 multi unit rapid rate chargers; 2 multi unit battery maintenance systems; 2 multi unit battery optimizing systems; and 4 conditioning chargers

Physical Parameters

Size

5.2 in x 2.9 in x 1.2 in (without battery)

Weight

12.8 oz (without battery)

Power Requirements

7.5 V dc

WORKING DRAFT

External Power	Yes, with optional vehicular adapter
<u>Available Accessories</u>	
Speaker-Microphones	4 standard models available; 5 ear worn speaker microphones available
Carrying Cases	6 leather carrying cases; 4 nylon carrying cases; 1 belt clips; universal chest pack; breakaway chest pack; and universal radio pack (worn around waist)
Battery Eliminators	No
Vehicle Adapters	Yes
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Standard use
Environmental Conditions	-22 °F to 140 °F
Unit Cost	\$2K MSRP Contact dealer for discount pricing
Battery Cycle Life	Not specified
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Digital capable
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	Available
Warranty	1 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	Yes

WORKING DRAFT

General

Name

Motorola Astro Transceiver, Portable; XTS 3000 Model I

ID# 93



Model Number(s)

XTS 3000 Model I

Technology

Portable, conventional and trunked

Manufacturer

Motorola USA
1301 E. Algonquin Road
Schaumburg, Illinois 60196
800-247-2346 (Tel)

Secure Communication Capability

Yes

Availability

Available

Frequency Range

VHF: 136 MHz to 174 MHz
UHF: 403 MHz to 470, 450 MHz to 520 MHz
800: 806 MHz to 824 MHz, 851 MHz to 870 MHz

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Motorola

Operational Parameters

Number of Channels

16 to 48 channels

Transmitter Power Output Levels

1 W to 5 W

Battery Options

3 NiCad 1500 mAh; 2 NiMH 1650 & 1800 mAh; and
1 Lithium Ion 1500 mAh

Battery Recharging Options

6 desktop, single unit rapid charge rate chargers; 4 desktop, multi unit rapid charge rate chargers; 2 multi unit battery maintenance systems; 2 multi unit battery optimizing systems; and 2 conditioning chargers

Physical Parameters

Size

6.6 in x 2.4 in x 1.7 in (without battery)

Weight

14.4 oz (without battery)

Power Requirements

6 V dc to 9 V dc

External Power

No

WORKING DRAFT

Available Accessories

Speaker-Microphones

5 standard models available; 3 ear worn speaker microphones available

Carrying Cases

8 leather carrying cases; universal chest pack; and standard chest pack

Battery Eliminators

No

Vehicle Adapters

No

Logistical Parameters

Programming

Dealer/User (authorized technician)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Designed for ruggedness; and weather sealed universal connector

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$1.7K MSRP, add \$250 for ruggedized version (see Item # 113) and contact dealer for discount pricing

Battery Cycle Life

Not specified

Rapid Charge Battery Cycle Life

Not applicable

Maintenance Cost

Not specified

Interface Capability

Digital capable

Special Requirements

Operator Skills Required

Average

Operator Training Requirements

Average

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Available

Warranty

1 yr

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe

No

WORKING DRAFT

General

Name

Motorola Astro Transceiver, Portable; XTS 3000 Model 2

ID# 94



Model Number(s)

XTS 3000 Model II

Technology

Portable, conventional and trunked

Manufacturer

Motorola USA
1301 E. Algonquin Road
Schaumburg, Illinois 60196
800-247-2346 (Tel)

Secure Communication Capability

Yes

Availability

Available

Frequency Range

VHF: 136 MHz to 174 MHz
UHF: 403 MHz to 470 MHz, 450 MHz to 520 MHz
800: 806 MHz to 824 MHz, 851 MHz to 870 MHz

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Motorola

Operational Parameters

Number of Channels

255 channels

Transmitter Power Output Levels

1 W to 5 W

Battery Options

3 NiCad 1500 mAh; 2 NiMH 1650 & 1800 mAh; and
1 Lithium Ion 1500 mAh

Battery Recharging Options

6 desktop, single unit rapid charge rate chargers; 4 desktop, multi unit rapid charge rate chargers; 2 multi unit battery maintenance systems; 2 multi unit battery optimizing systems; and 2 conditioning chargers

Physical Parameters

Size

6.6 in x 2.4 in x 1.7 in (without battery)

Weight

14.4 oz (without battery)

Power Requirements

6 V dc to 9 V dc

External Power

No

WORKING DRAFT

Available Accessories

Speaker-Microphones

5 standard models available; 3 ear worn speaker microphones available

Carrying Cases

8 leather carrying cases; universal chest pack; and standard chest pack

Battery Eliminators

No

Vehicle Adapters

No

Logistical Parameters

Programming

Dealer/User (authorized technician)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Designed for ruggedness; and weather sealed universal connector

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$2K MSRP, add \$250 for ruggedized version (see ID# 113), and contact dealer for discount pricing

Battery Cycle Life

Not specified

Rapid Charge Battery Cycle Life

Not applicable

Maintenance Cost

Not specified

Interface Capability

Digital capable

Special Requirements

Operator Skills Required

Average

Operator Training Requirements

Average

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Available

Warranty

1 yr

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe

No

WORKING DRAFT

General

Name

Motorola Astro Transceiver, Portable; XTS 3000 Model 3

ID# 95



Model Number(s)

XTS 3000 Model III

Technology

Portable, conventional and trunked

Manufacturer

Motorola USA
1301 E. Algonquin Road
Schaumburg, Illinois 60196
800-247-2346 (Tel)

Secure Communication Capability

Yes

Availability

Available

Frequency Range

VHF: 136 MHz to 174 MHz
UHF: 403 MHz to 470 MHz, 450 MHz to 520 MHz
800: 806 MHz to 824 MHz, 851 MHz to 870 MHz

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Motorola

Operational Parameters

Number of Channels

255 channels

Transmitter Power Output Levels

1 W to 5 W

Battery Options

3 NiCad 1500 mAh; 2 NiMH 1650 & 1800 mAh; and
1 Lithium Ion 1500 mAh

Battery Recharging Options

6 desktop, single unit rapid charge rate chargers; 4 desktop, multi unit rapid charge rate chargers; 2 multi unit battery maintenance systems; 2 multi unit battery optimizing systems; and 2 conditioning chargers

Physical Parameters

Size

6.6 in x 2.4 in x 1.7 in (without battery)

Weight

14.4 oz (without battery)

Power Requirements

6 V dc to 9 V dc

External Power

No

WORKING DRAFT

Available Accessories

Speaker-Microphones

5 standard models available; 3 ear worn speaker microphones available

Carrying Cases

8 leather carrying cases; universal chest pack; and standard chest pack

Battery Eliminators

No

Vehicle Adapters

No

Logistical Parameters

Programming

Dealer/User (authorized technician)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Designed for ruggedness; weather sealed universal connector

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$2.4K MSRP, add \$250 for ruggedized version (see ID# 113), and contact dealer for discount pricing

Battery Cycle Life

Not specified

Rapid Charge Battery Cycle Life

Not applicable

Maintenance Cost

Not specified

Interface Capability

Digital capable

Special Requirements

Operator Skills Required

Average

Operator Training Requirements

Average

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Available

Warranty

1 yr

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe

No

WORKING DRAFT

General

Name

Motorola Astro Transceiver, Portable; XTS 3000R Series Models 1, 2, & 3

ID# 96



Model Number(s)

XTS 3000R Model 1, 2, or 3 (ruggedized versions of ID#s 96, 97, and 98)

Technology

Portable, conventional and trunked

Manufacturer

Motorola USA
1301 E. Algonquin Road
Schaumburg, Illinois 60196
800-247-2346 (Tel)

POC: Ron Zeberlein
410-712-6014 (Tel)

Secure Communication Capability

Yes

Availability

Available

Frequency Range

VHF: 136 MHz to 174 MHz
UHF: 403 MHz to 470 MHz, 450 MHz to 520 MHz
800: 806 MHz to 824 MHz, 851 MHz to 870 MHz

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Motorola

Operational Parameters

Number of Channels

Model I: 16/48 channels
Model II and Model III: 255 channels
1 W to 5 W

Transmitter Power Output Levels

Battery Options

3 NiCad 1500 mAh; 2 NiMH 1650 & 1800 mAh;
and 1 Lithium Ion 1500 mAh

Battery Recharging Options

6 desktop, single unit rapid charge rate chargers; 4 desktop, multi unit rapid charge rate chargers; 2 multi unit battery maintaining systems; 2 multi unit battery optimizing systems; and 2 conditioning chargers

Physical Parameters

Size

6.6 in x 2.4 in x 1.7 in (without battery)

Weight

14.4 oz (without battery)

Power Requirements

6 V dc to 9 V dc

WORKING DRAFT

External Power	No
<u>Available Accessories</u>	
Speaker-Microphones	5 standard models available; 3 ear worn speaker microphones available
Carrying Cases	8 leather carrying cases; universal chest pack; and standard chest pack
Battery Eliminators	No
Vehicle Adapters	No
<u>Logistical Parameters</u>	
Programming	Dealer/User (authorized technician)
Repairs	Dealer
Decontamination	Not specified
Durability/Ruggedness	Rugged, submersible (withstand up to 4 h under 6 ft of water-fresh or salt)
Environmental Conditions	-22 °F to 140 °F
Unit Cost	Add \$250 to ID#’s 97, 98, 99 for ruggedized versions and contact dealer for discount pricing
Battery Cycle Life	Not specified
Rapid Charge Battery Cycle Life	Not applicable
Maintenance Cost	Not specified
Interface Capability	Digital capable
<u>Special Requirements</u>	
Operator Skills Required	Average
Operator Training Requirements	Average
Training Available	Yes
Manuals Available	Yes
Applicable Regulations	Not specified
Support Equipment	Available
Warranty	1 yr
Mil Spec/Mil-Std Ratings	Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E
Intrinsically Safe	No

WORKING DRAFT

General

Name

Motorola Dual Mode Mobile; MCS 2000 Mobile Model 1

ID# 97



Model Number(s)

MCS 2000 Mobile Model 1

Technology

Mobile conventional and trunked radio

Manufacturer

Motorola USA
1301 E. Algonquin Road
Schaumburg, Illinois 60196
800-247-2346 (Tel)

Secure Communication Capability

POC: Ron Zeberlein
410-712-6014 (Tel)

Availability

Yes

Frequency Range

Available

Number of Personnel Supported by System

VHF: 136 MHz to 174 MHz
UHF: 403 MHz to 512 MHz
800/900: 806 MHz to 870 MHz to 896 MHz to 941 MHz
Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Motorola

Operational Parameters

Number of Channels

48 with optional 150 channels

Transmitter Power Output Levels

1 W to 35 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

1.7 in x 6.6 in x 6.3 in

Weight

3.9 lb

Power Requirements

12 V dc

External Power

Not applicable

Available Accessories

Speaker-Microphones

Not applicable

Carrying Cases

Not applicable

WORKING DRAFT

Battery Eliminators

Not applicable

Vehicle Adapters

Not applicable

Logistical Parameters

Programming

Dealer/User (authorized technician)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Standard use

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$958 MSRP and contact dealer for discount pricing

Battery Cycle Life

Not specified

Rapid Charge Battery Cycle Life

Not specified

Maintenance Cost

Not specified

Interface Capability

No

Special Requirements

Operator Skills Required

Average

Operator Training Requirements

Average

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Available

Warranty

1 yr

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and
Mil Spec 810E

Intrinsically Safe

Not specified

WORKING DRAFT

General

Name

Motorola Dual Mode Mobile; MCS 2000 Mobile Model II

ID# 98



Model Number(s)

MCS 2000 Mobile Model 2

Technology

Mobile, conventional and trunked radio

Manufacturer

Motorola USA
1301 E. Algonquin Road
Schaumburg, Illinois 60196
800-247-2346 (Tel)

Secure Communication Capability

POC: Ron Zeberlein
410-712-6014 (Tel)

Availability

Yes

Frequency Range

Available

VHF: 136 MHz to 174 MHz
UHF: 403 MHz to 512 MHz
800/900 MHz: 806 MHz to 870 MHz to 896 MHz to 941 MHz

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Motorola

Operational Parameters

Number of Channels

160 with optional 250 channels

Transmitter Power Output Levels

1 W to 35 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

1.7 in x 6.6 in x 6.3 in

Weight

3.9 lb

Power Requirements

12 V dc

External Power

Not applicable

Available Accessories

Speaker-Microphones

Not applicable

WORKING DRAFT

Carrying Cases Not applicable

Battery Eliminators Not applicable

Vehicle Adapters Not applicable

Logistical Parameters

Programming Dealer/User (authorized technician)

Repairs Dealer

Decontamination Not specified

Durability/Ruggedness Standard use

Environmental Conditions -22 °F to 140 °F

Unit Cost \$1.3K MSRP and contact dealer for discount pricing

Battery Cycle Life Not specified

Rapid Charge Battery Cycle Life Not specified

Maintenance Cost Not specified

Interface Capability Not specified

Special Requirements

Operator Skills Required Average

Operator Training Requirements Average

Training Available Yes

Manuals Available Yes

Applicable Regulations Not specified

Support Equipment Available

Warranty 1 yr

Mil Spec/Mil-Std Ratings Meets Mil Spec 810C, Mil Spec 810D, and
Mil Spec 810E

Intrinsically Safe Not specified

WORKING DRAFT

General

Name

Motorola Dual Mode Mobile; MCS 2000 Mobile Model III

ID# 99



Model Number(s)

MCS 2000 Mobile Model 3

Technology

Mobile, conventional and trunked radio

Manufacturer

Motorola USA
1301 E. Algonquin Road
Schaumburg, Illinois 60196
800-247-2346 (Tel)

POC: Ron Zeberlein
410-712-6014 (Tel)

Secure Communication Capability

Yes

Availability

Available

Frequency Range

VHF: 136 MHz to 174 MHz
UHF: 403 MHz to 512 MHz
800/900MHz: 806 MHz to 870 MHz to 896 MHz
to 941 MHz

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Motorola

Operational Parameters

Number of Channels

160 with optional 250 channels

Transmitter Power Output Levels

1 W to 35 W

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

2.3 in x 6.6 in x 11.7 in

Weight

5.5 lb

Power Requirements

12 V dc

External Power

Not applicable

Available Accessories

WORKING DRAFT

Speaker-Microphones

Not applicable

Carrying Cases

Not applicable

Battery Eliminators

Not applicable

Vehicle Adapters

Not applicable

Logistical Parameters

Programming

Dealer/User (authorized technician)

Repairs

Dealer

Decontamination

Not specified

Durability/Ruggedness

Standard use

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$1.6K MSRP and contact dealer for discount pricing

Battery Cycle Life

Not specified

Rapid Charge Battery Cycle Life

Not specified

Maintenance Cost

Not specified

Interface Capability

Not specified

Special Requirements

Operator Skills Required

Average

Operator Training Requirements

Average

Training Available

Yes

Manuals Available

Yes

Applicable Regulations

Not specified

Support Equipment

Available

Warranty

1 yr

Mil Spec/Mil-Std Ratings

Meets Mil Spec 810C, Mil Spec 810D, and
Mil Spec 810E

Intrinsically Safe

Not specified

WORKING DRAFT

General

Name

Motorola Transceiver; Astro Digital Spectra W3

ID# 100



Model Number(s)

Astro Digital Spectra W3

Technology

Mobile, conventional and trunked radio

Manufacturer

Motorola USA
1301 E. Algonquin Road
Schaumburg, Illinois 60196
800-247-2346 (Tel)

Secure Communication Capability

Yes

Availability

Available

Frequency Range

VHF: 136 MHz to 174 MHz
UHF: 403 MHz to 433 MHz, 438 MHz to 470 MHz,
450 MHz to 482 MHz, 482 MHz to 512 MHz
800 MHz: 806 MHz to 870 MHz

Number of Personnel Supported by System

Multiple

Geographic Coverage

Not specified

Current User(s)

Not specified

Source

Motorola

Operational Parameters

Number of Channels

255 channels

Transmitter Power Output Levels

10 W to 110 W (35 W on 800 MHz)

Battery Options

Not applicable

Battery Recharging Options

Not applicable

Physical Parameters

Size

2 in x 7.1 in x 2.2 in

Weight

6.1 lb

Power Requirements

12 V dc

External Power

Not applicable

Available Accessories

Speaker-Microphones

Not applicable

WORKING DRAFT

Carrying Cases Not applicable

Battery Eliminators Not applicable

Vehicle Adapters Not applicable

Logistical Parameters

Programming Dealer/User (authorized technician)

Repairs Dealer

Decontamination Not specified

Durability/Ruggedness Standard use

Environmental Conditions -22 °F to 140 °F

Unit Cost \$3K MSRP and contact dealer for discount pricing

Battery Cycle Life Not specified

Rapid Charge Battery Cycle Life Not specified

Maintenance Cost Not specified

Interface Capability Digital capable

Special Requirements

Operator Skills Required Average

Operator Training Requirements Average

Training Available Yes

Manuals Available Yes

Applicable Regulations Not specified

Support Equipment Available

Warranty 1 yr

Mil Spec/Mil-Std Ratings Meets Mil Spec 810C, Mil Spec 810D, and
Mil Spec 810E

Intrinsically Safe Not specified